

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090519\
 Data File : VL034127.D
 Acq On : 5 Sep 2019 7:05
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL090519

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:15:03 AM

Quant Time: Sep 05 10:28:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 05 10:28:36 2019
 QLast Update : Thu Sep 05 10:21:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1102166	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	2090110	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2220194m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.51	95	1776429	9.79	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	1677736	9.229	ppbv	98
3) Chlorodifluoromethane	2.98	51	1179344	9.599	ppbv	100
4) Chloromethane	3.13	50	671394	8.741	ppbv	97
5) Vinyl Chloride	3.26	62	607540	8.684	ppbv	97
6) Bromomethane	3.47	94	325088	9.415	ppbv	99
7) Chloroethane	3.56	64	222784	9.346	ppbv	97
8) Dichlorotetrafluoroethane	3.18	85	1292451	8.833	ppbv	99
9) Propene	3.00	41	626378	9.112	ppbv	98
10) Heptane	8.19	43	1649725	9.248	ppbv	98
11) Trichlorofluoromethane	3.96	101	1308245	8.824	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.50	101	916691	9.242	ppbv	100
13) Ethanol	3.61	45	121225	9.002	ppbv	98
14) Bromoethene	3.75	108	395331	9.206	ppbv	99
15) Acetone	3.86	43	1114112	8.387	ppbv	99
16) 1,3-Butadiene	3.33	39	616331	9.162	ppbv	99
17) tert-Butyl alcohol	4.31	59	820239	8.506	ppbv	100
18) 1,1-Dichloroethene	4.31	96	418855	9.243	ppbv	96
19) Isopropyl Alcohol	3.98	45	751920	8.387	ppbv #	11
20) Methylene Chloride	4.36	84	369726	8.418	ppbv	97
21) Allyl Chloride	4.43	41	810777	9.258	ppbv	98
22) trans-1,2-Dichloroethene	4.91	96	401478	8.851	ppbv	94
23) Vinyl Acetate	5.11	43	2127005	9.438	ppbv	99
24) 1,1-Dichloroethane	5.04	63	1339173	8.953	ppbv	100
25) Ethyl Acetate	5.71	43	2471237	8.475	ppbv	100
26) Hexane	5.73	57	1089510	8.404	ppbv	97
27) Carbon Disulfide	4.57	76	1100352	9.405	ppbv	100
28) Methyl tert-Butyl Ether	5.06	73	1749621	9.211	ppbv	99
29) Chloroform	5.80	83	1584158	9.060	ppbv	99
30) Cyclohexane	7.19	84	891131	9.508	ppbv	100
31) cis-1,2-Dichloroethene	5.59	61	1152794	9.286	ppbv	98
32) 1,1,1-Trichloroethane	6.56	97	1501413	9.089	ppbv	99
34) 2-Butanone	5.28	43	1786913	8.893	ppbv	99
35) Carbon Tetrachloride	7.08	117	1433566	8.797	ppbv	98
36) Benzene	6.95	78	2138779	8.952	ppbv	97
37) 1,2-Dichloroethane	6.36	62	1314713	8.971	ppbv	100
38) Trichloroethene	7.90	130	683853	7.671	ppbv	98
39) 1,2-Dichloropropane	7.68	63	925948	9.057	ppbv	96
40) 1,4-Dioxane	7.89	88	291536	7.759	ppbv #	95
41) Tetrahydrofuran	6.09	42	1110621	9.219	ppbv	99
42) Bromodichloromethane	7.86	83	1736412	9.091	ppbv	99
43) Methyl Methacrylate	8.08	69	924194	9.390	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.93	57	3767139	8.553	ppbv	100
45) t-1,3-Dichloropropene	9.35	75	1101320	9.521	ppbv	97
46) cis-1,3-Dichloropropene	8.78	75	1299022	9.230	ppbv	98
47) 1,1,2-Trichloroethane	9.55	97	858544m	9.217	ppbv	
48) Dibromochloromethane	10.39	129	1330658	9.574	ppbv	97
49) Bromoform	13.14	173	1151541	9.450	ppbv	98
50) 4-Methyl-2-Pentanone	8.81	43	2654818	8.658	ppbv	99
51) 2-Hexanone	10.21	43	2280979	8.611	ppbv #	99
52) Tetrachloroethene	11.31	164	680766	8.081	ppbv	98
53) Toluene	9.89	91	2392128	9.053	ppbv	99
54) 1,2-Dibromoethane	10.70	107	1278816	9.216	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.22	131	876496	9.205	ppbv #	61
57) Chlorobenzene	12.24	112	1640849	8.591	ppbv	99
58) Ethyl Benzene	12.80	91	3215766	8.833	ppbv	98
59) m/p-Xylene	13.09	91	5098143m	17.166	ppbv	
60) o-Xylene	13.79	91	2542226	8.594	ppbv	100
61) Styrene	13.62	104	1937963	8.759	ppbv	99
62) Isopropylbenzene	14.76	105	3335027	8.665	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.77	83	1868090	7.750	ppbv	99
64) n-propylbenzene	15.66	120	890541	9.237	ppbv	98
65) tert-Butylbenzene	16.85	119	2828223	8.515	ppbv	99
66) Benzyl Chloride	17.10	91	1209294	9.875	ppbv	99
67) sec-Butylbenzene	17.40	105	4118908	8.624	ppbv	99
69) p-Isopropyltoluene	17.76	119	3344608	8.752	ppbv	100
70) n-Butylbenzene	18.65	91	3798606	8.736	ppbv	99
71) 2-Chlorotoluene	15.55	91	2780724	8.845	ppbv	99
72) 4-Ethyltoluene	15.94	105	2958988	8.866	ppbv	99
73) 1,3,5-Trimethylbenzene	16.09	105	2853139	8.796	ppbv	98
74) 1,2,4-Trimethylbenzene	16.87	105	2778842	8.320	ppbv	93
75) 1,3-Dichlorobenzene	17.10	146	1494902	8.447	ppbv	99
76) 1,4-Dichlorobenzene	17.24	146	1580993	8.524	ppbv	100
77) 1,2-Dichlorobenzene	17.92	146	1561001	8.616	ppbv	99
78) Hexachloro-1,3-Butadiene	23.48	225	1010981	8.179	ppbv	98
79) Naphthalene	22.33	128	2719206	9.005	ppbv	98
80) Naphthalene, 2-methyl-	25.06	142	1035925	9.884	ppbv	99
81) 1,2,4-Trichlorobenzene	22.05	180	1374550	8.366	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

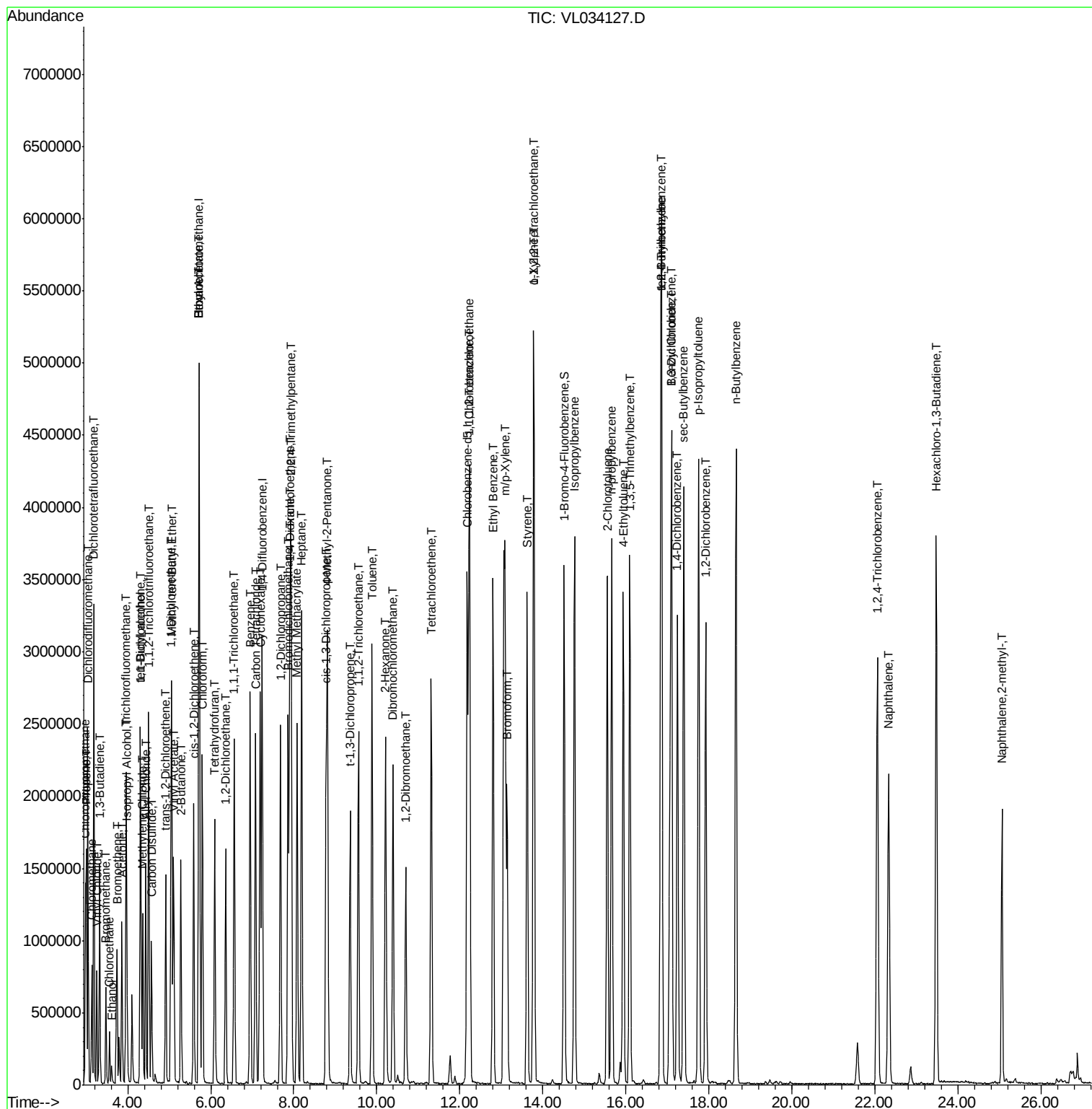
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090519\
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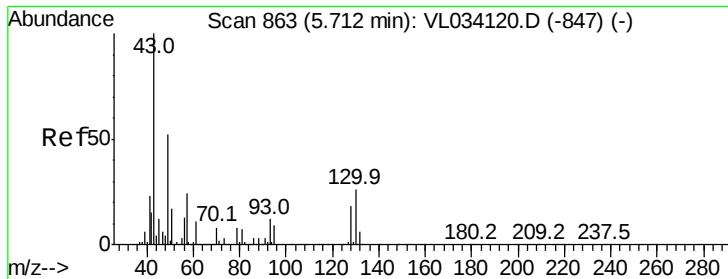
Instrument :
MSVOA_L
ClientSampleId :
ICVVL090519

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QLast Update : Thu Sep 05 10:21:45 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 863

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA_L

ClientSampleId :

ICVVL090519

Tot Ion: 49 Resp: 1102166

Ion Ratio Lower Upper

49 100

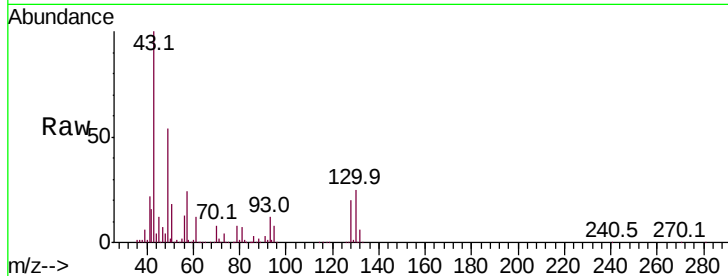
128 37.0 18.4 55.0

130 46.6 23.5 70.6

Manual Integrations
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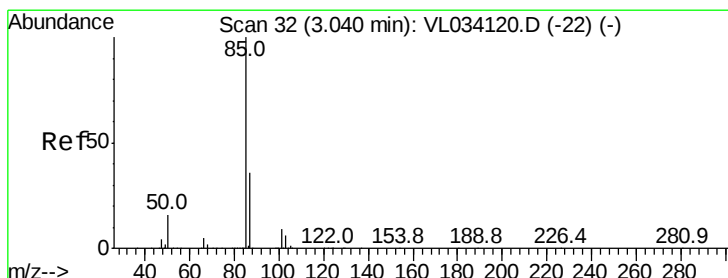
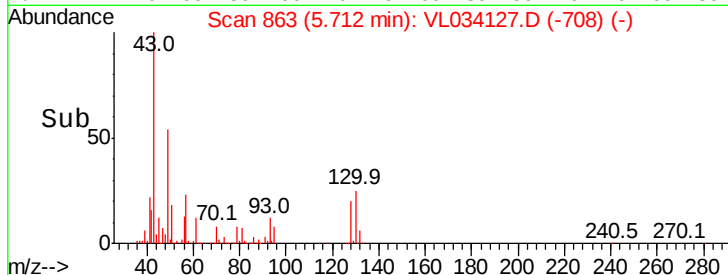
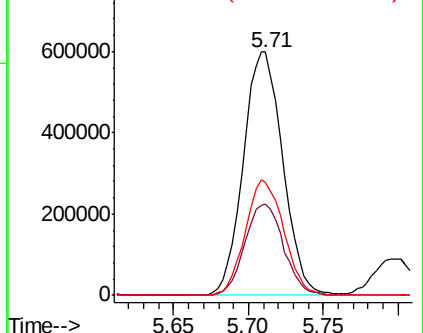
9/12/2019 5:15:03 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 9.229 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL034127.D

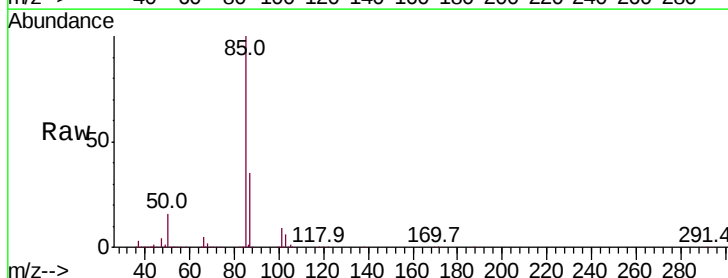
Acq: 5 Sep 2019 7:05

Tgt Ion: 85 Resp: 1677736

Ion Ratio Lower Upper

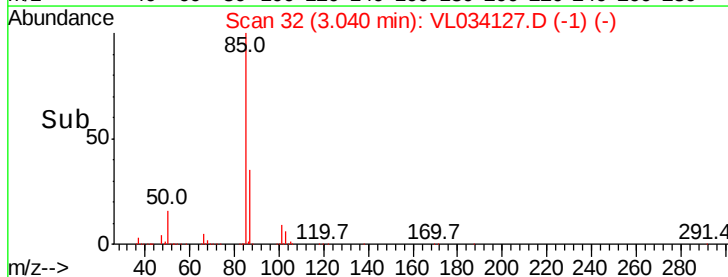
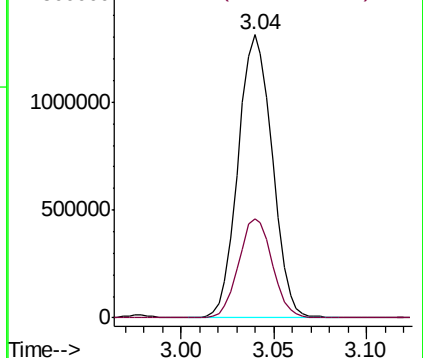
85 100

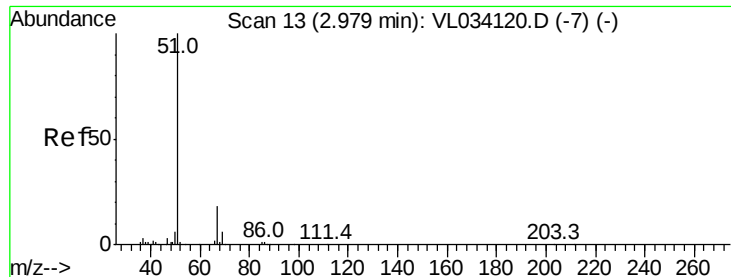
87 34.8 28.6 43.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





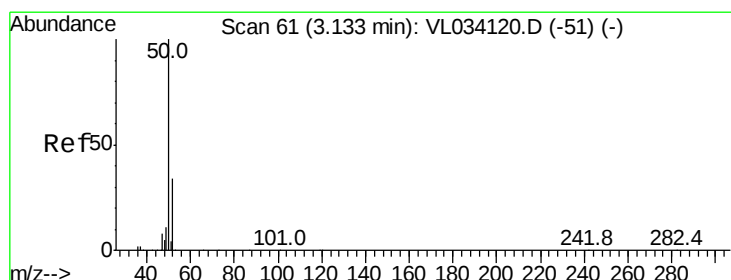
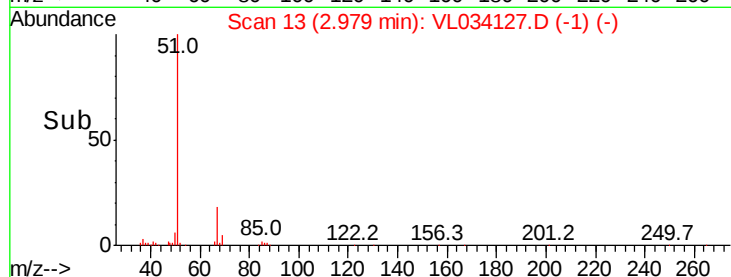
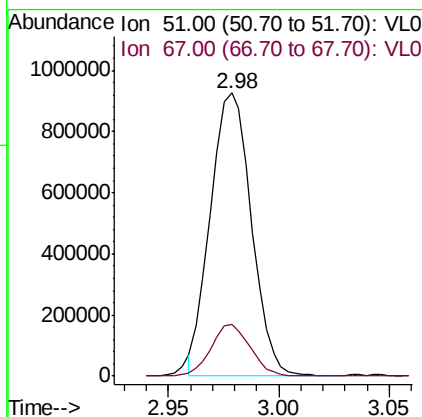
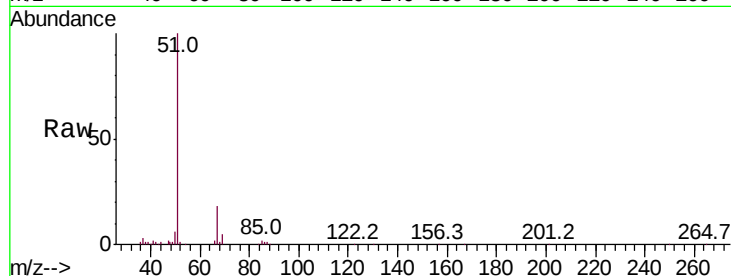
#3
Chlorodifluoromethane
Concen: 9.599 ppbv
RT: 2.98 min Scan# 13
Delta R.T. -0.00 min
Lab File: VL034127.D
Acq: 5 Sep 2019 7:05

Instrument :
MSVOA_L
ClientSampleId :
ICVVL090519

Tot Ion: 51 Resp: 1179344
Ion Ratio Lower Upper
51 100
67 17.7 14.2 21.4

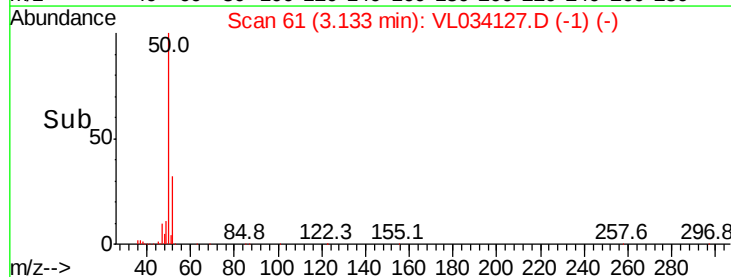
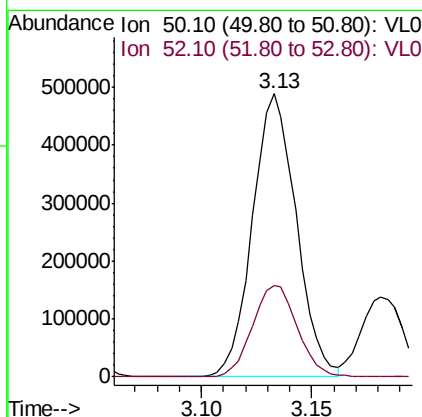
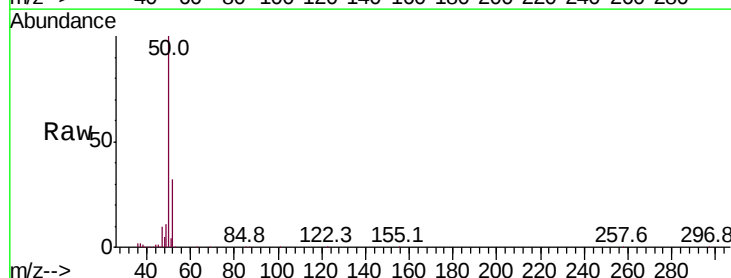
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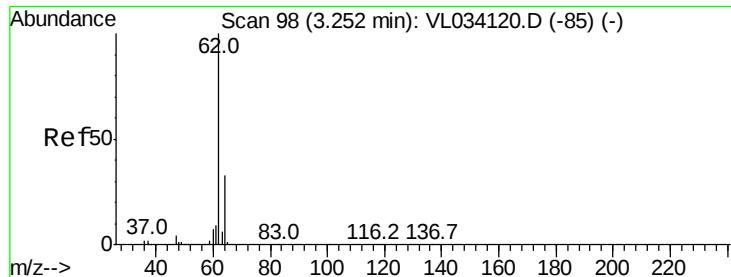
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#4
Chloromethane
Concen: 8.741 ppbv
RT: 3.13 min Scan# 61
Delta R.T. -0.00 min
Lab File: VL034127.D
Acq: 5 Sep 2019 7:05

Tgt Ion: 50 Resp: 671394
Ion Ratio Lower Upper
50 100
52 32.4 27.4 41.2





#5

Vinyl Chloride

Concen: 8.684 ppbv

RT: 3.26 min Scan# 99

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA_L

ClientSampleId :

ICVVL090519

Tot Ion: 62 Resp: 607540

Ion Ratio Lower Upper

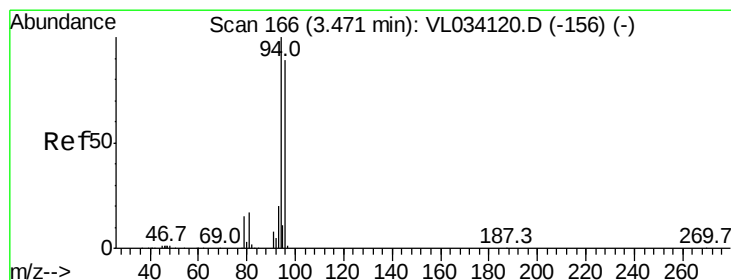
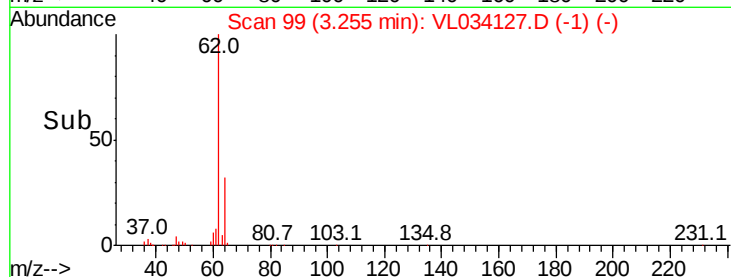
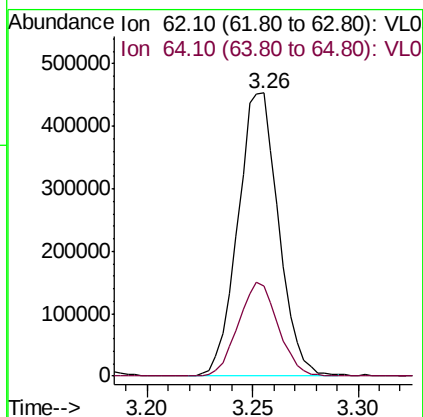
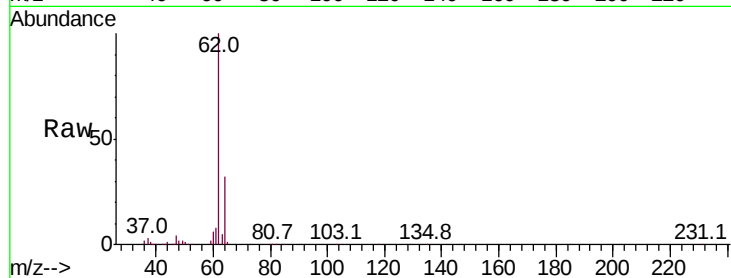
62 100

64 31.7 26.6 39.8

Manual Integrations
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#6

Bromomethane

Concen: 9.415 ppbv

RT: 3.47 min Scan# 167

Delta R.T. 0.00 min

Lab File: VL034127.D

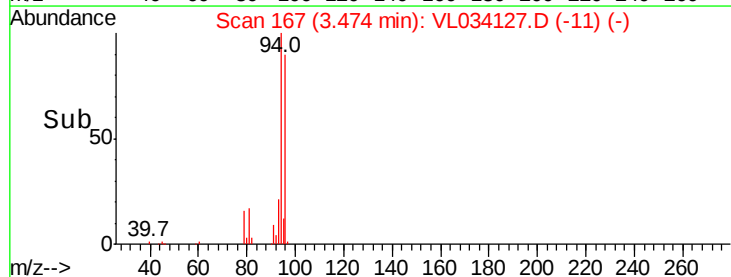
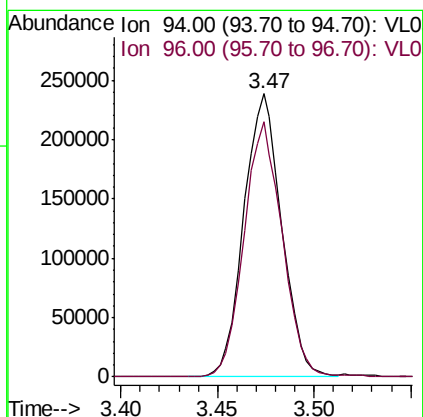
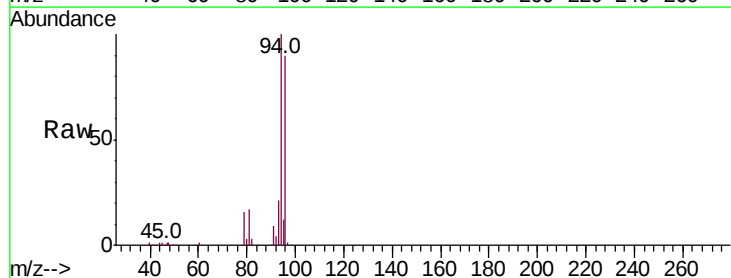
Acq: 5 Sep 2019 7:05

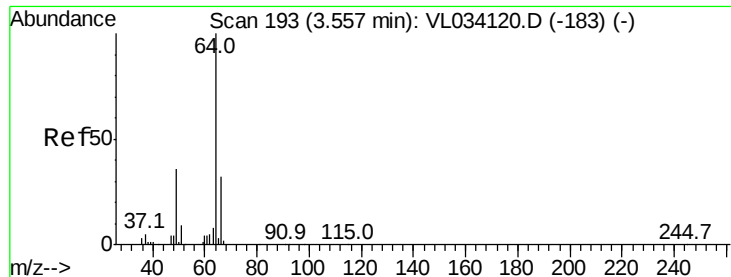
Tgt Ion: 94 Resp: 325088

Ion Ratio Lower Upper

94 100

96 90.1 71.4 107.0





#7

Chloroethane

Concen: 9.346 ppbv

RT: 3.56 min Scan# 194

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion: 64 Resp: 222784

Ion Ratio Lower Upper

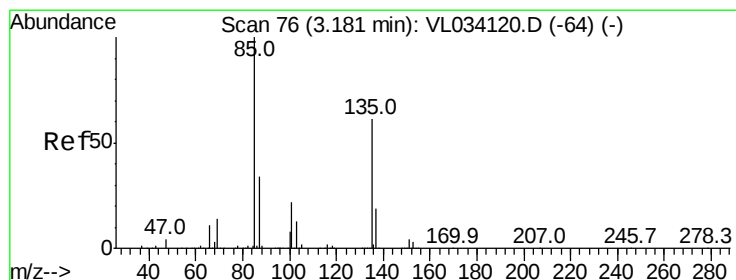
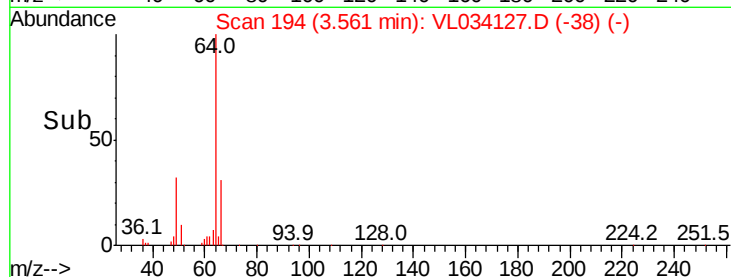
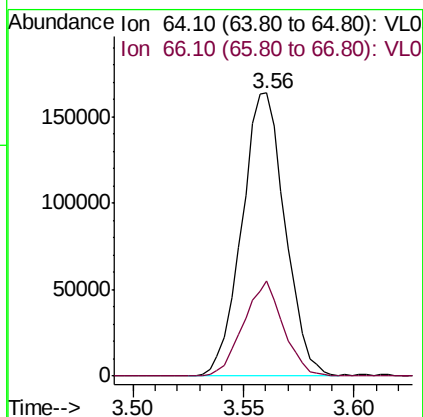
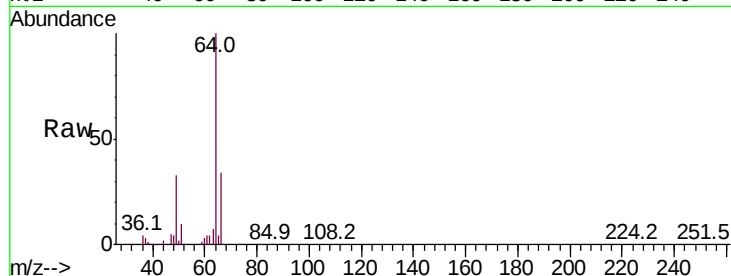
64 100

66 33.5 25.4 38.2

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#8

Dichlorotetrafluoroethane

Concen: 8.833 ppbv

RT: 3.18 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL034127.D

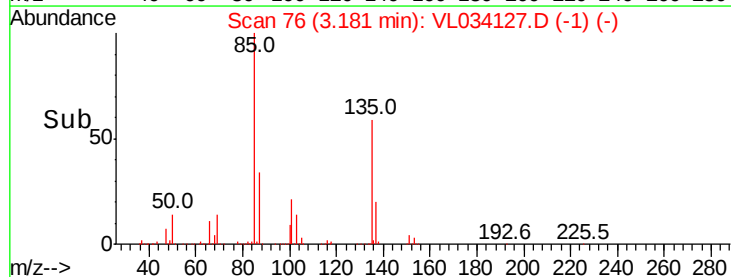
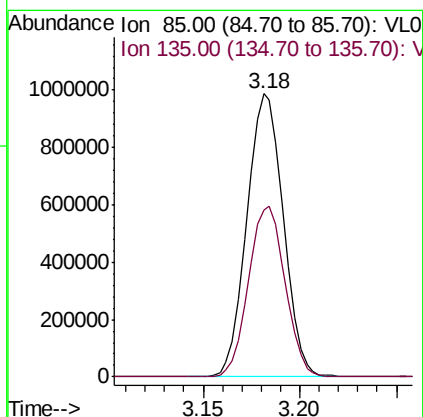
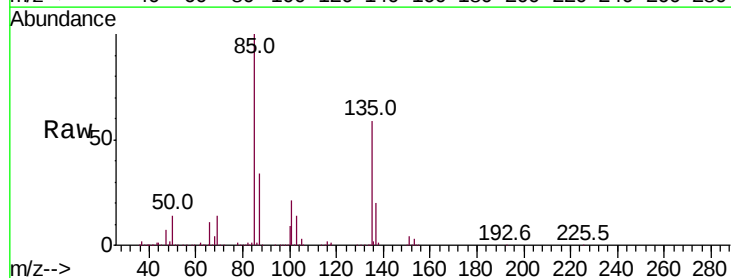
Acq: 5 Sep 2019 7:05

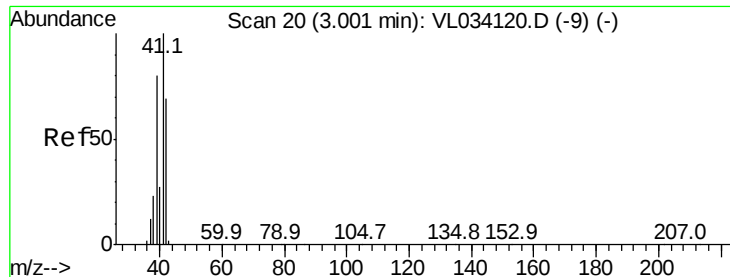
Tgt Ion: 85 Resp: 1292451

Ion Ratio Lower Upper

85 100

135 60.8 48.0 72.0





#9

Propene

Concen: 9.112 ppbv

RT: 3.00 min Scan# 20

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA_L

ClientSampleId :

ICVVL090519

Tot Ion: 41 Resp: 626378

Ion Ratio Lower Upper

41 100

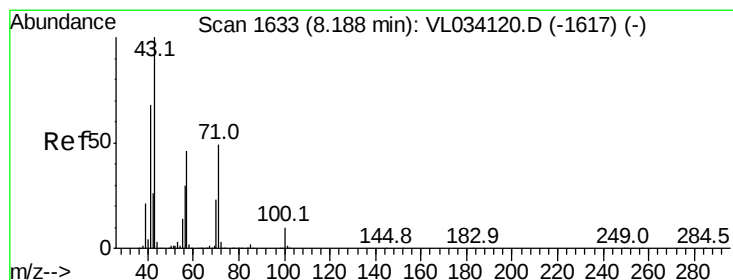
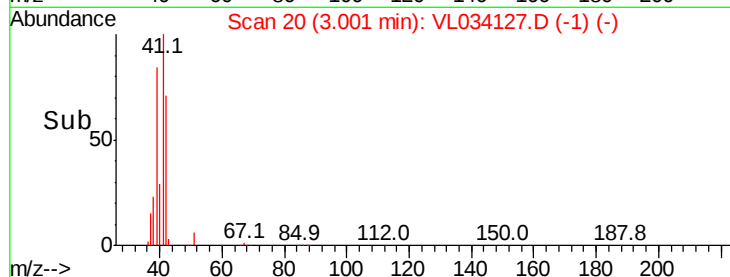
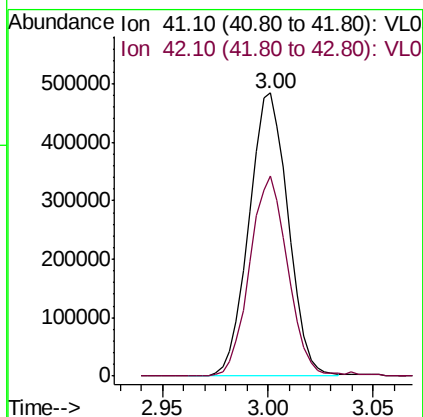
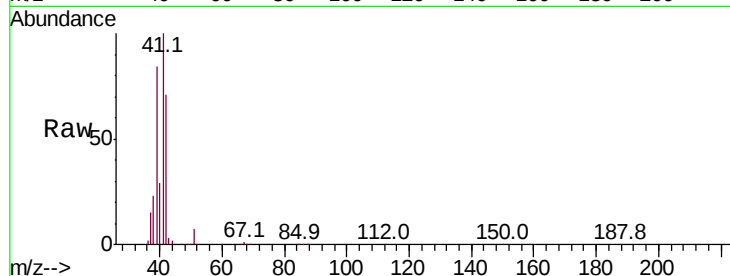
42 69.4 54.6 81.8

Manual Integrations

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#10

Heptane

Concen: 9.248 ppbv

RT: 8.19 min Scan# 1633

Delta R.T. -0.00 min

Lab File: VL034127.D

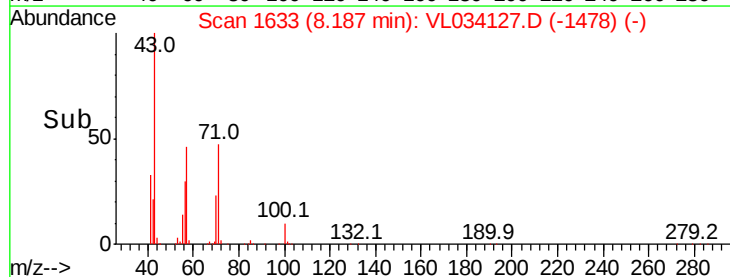
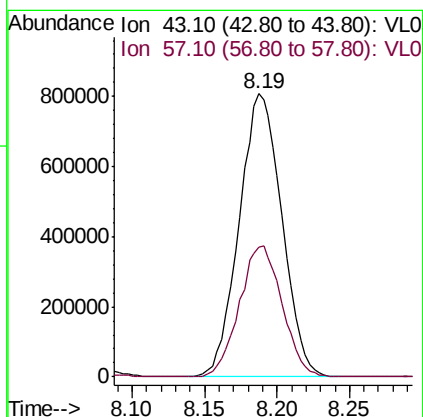
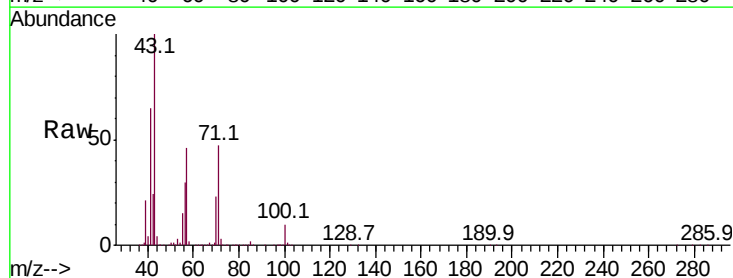
Acq: 5 Sep 2019 7:05

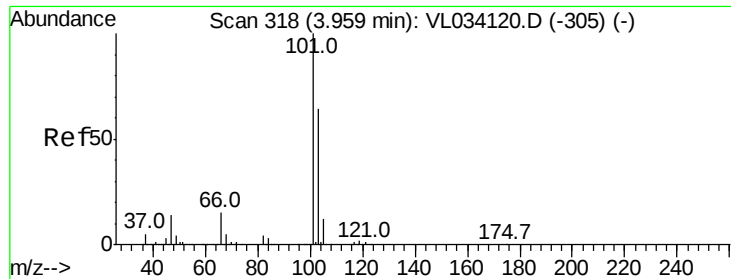
Tgt Ion: 43 Resp: 1649725

Ion Ratio Lower Upper

43 100

57 46.4 38.1 57.1





#11

Trichlorofluoromethane

Concen: 8.824 ppbv

RT: 3.96 min Scan# 318

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA_L

ClientSampleId :

ICVVL090519

Tot Ion:101 Resp: 1308245

Ion Ratio Lower Upper

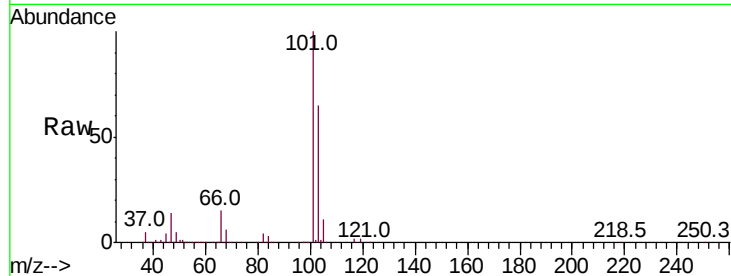
101 100

103 65.0 51.4 77.2

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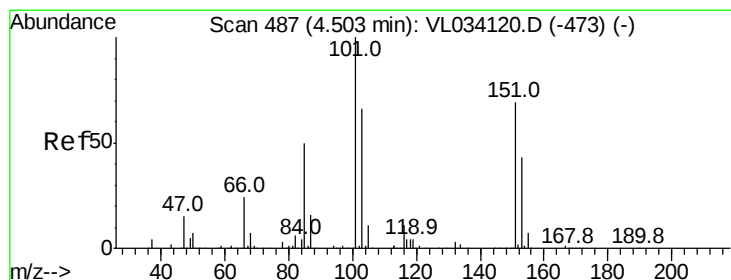
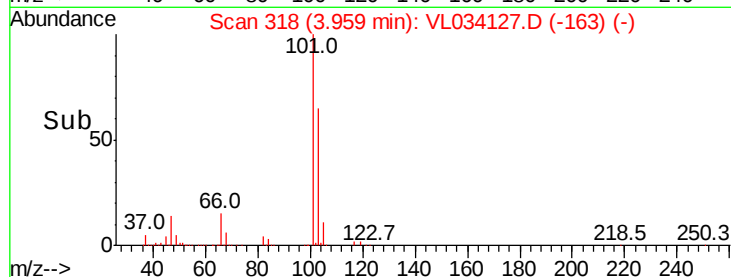
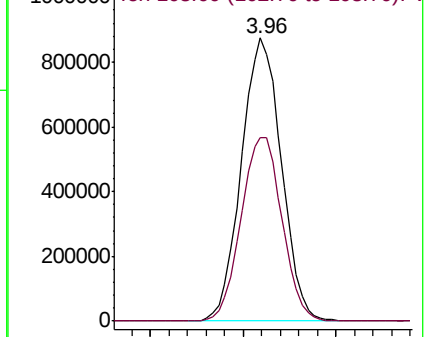
MMDadoda

9/12/2019 5:15:03 AM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.242 ppbv

RT: 4.50 min Scan# 487

Delta R.T. -0.00 min

Lab File: VL034127.D

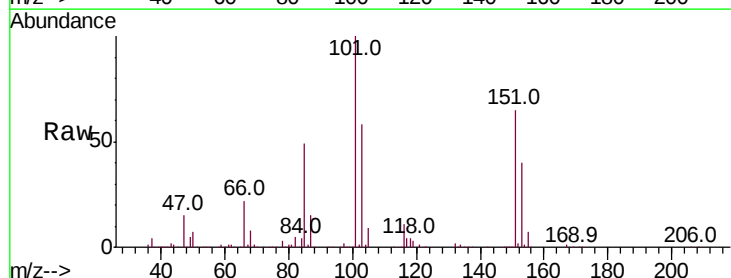
Acq: 5 Sep 2019 7:05

Tgt Ion:101 Resp: 916691

Ion Ratio Lower Upper

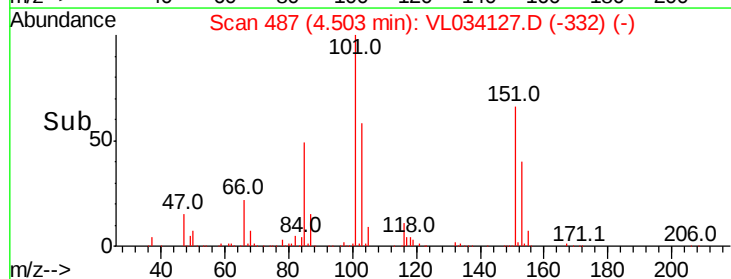
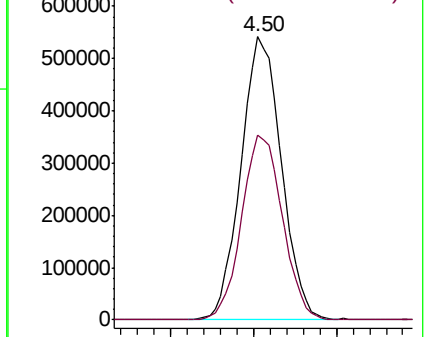
101 100

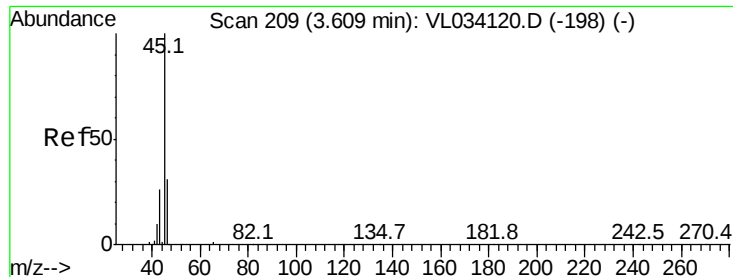
151 66.3 53.0 79.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





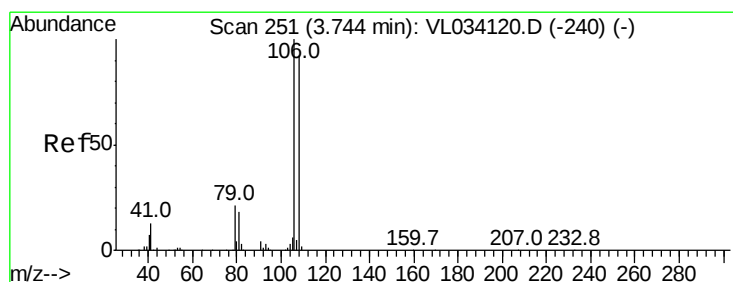
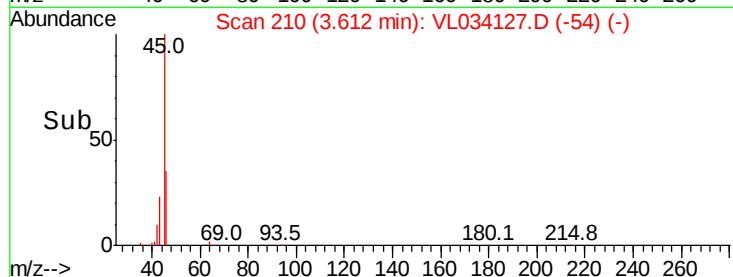
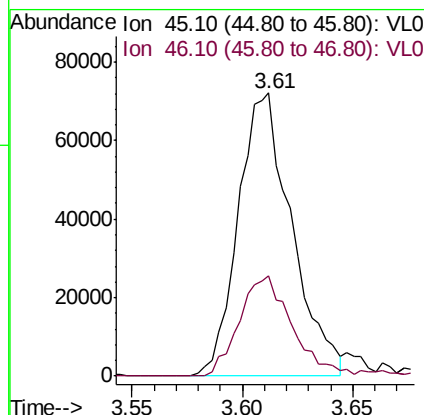
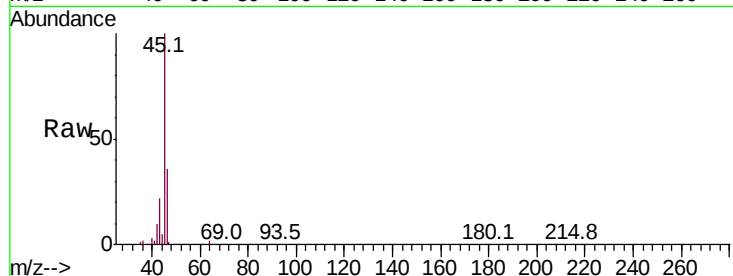
#13
Ethanol
Concen: 9.002 ppbv
RT: 3.61 min Scan# 210
Delta R.T. 0.00 min
Lab File: VL034127.D
Acq: 5 Sep 2019 7:05

Instrument :
MSVOA_L
ClientSampleId :
ICVVL090519

Tot Ion	Ratio	Resp	Lower	Upper
45	100	121225		
46	36.2	15.0	60.0	

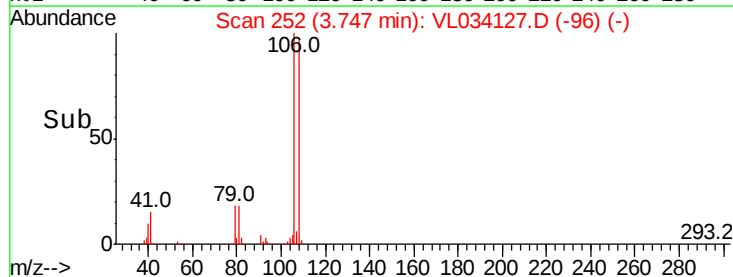
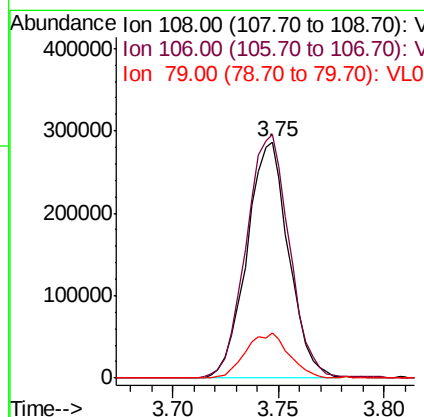
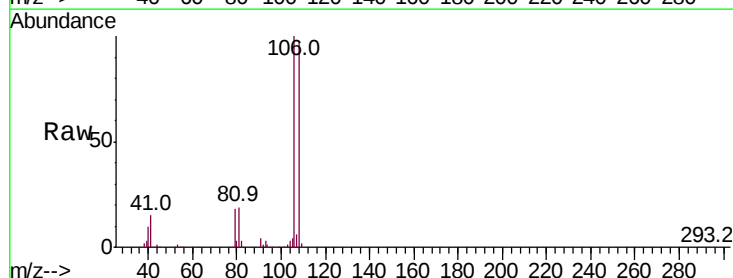
Manual Integrations
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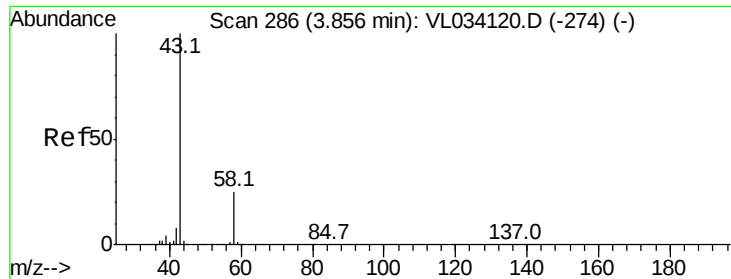
MMDadoda
9/12/2019 5:15:03 AM



#14
Bromoethene
Concen: 9.206 ppbv
RT: 3.75 min Scan# 252
Delta R.T. 0.00 min
Lab File: VL034127.D
Acq: 5 Sep 2019 7:05

Tgt Ion	Ratio	Resp	Lower	Upper
108	100	395331		
106	107.6	87.2	130.8	
79	20.2	16.5	24.7	





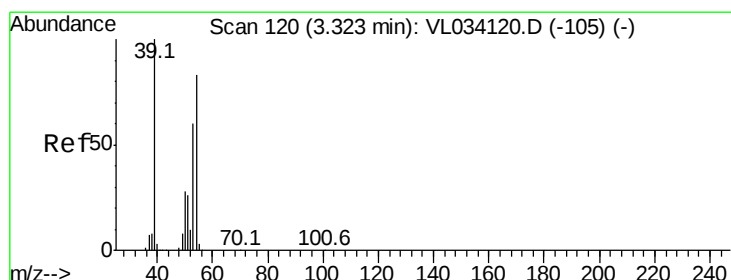
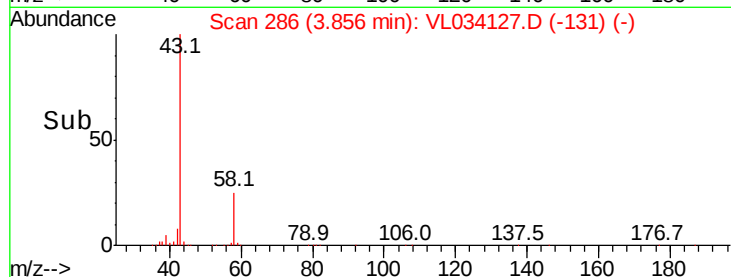
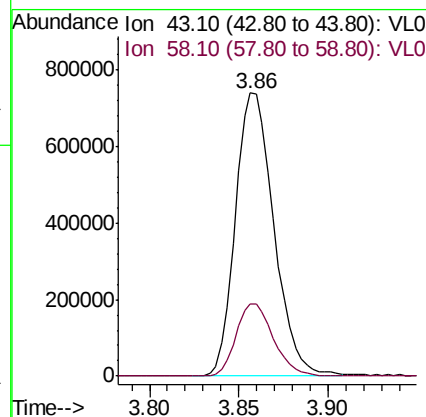
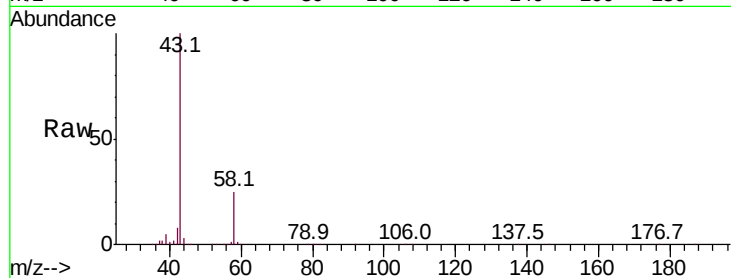
#15
Acetone
Concen: 8.387 ppbv
RT: 3.86 min Scan# 286
Delta R.T. -0.00 min
Lab File: VL034127.D
Acq: 5 Sep 2019 7:05

Instrument :
MSVOA_L
ClientSampleId :
ICVVL090519

Tot Ion: 43 Resp: 1114112
Ion Ratio Lower Upper
43 100
58 25.0 20.6 30.8

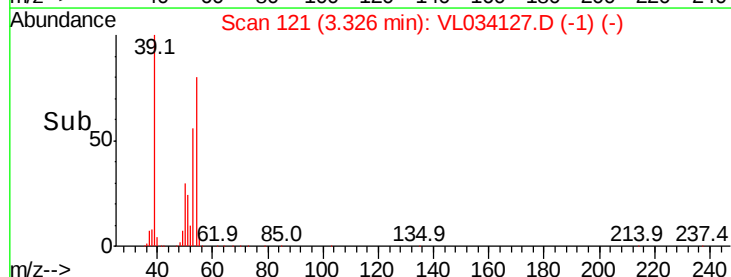
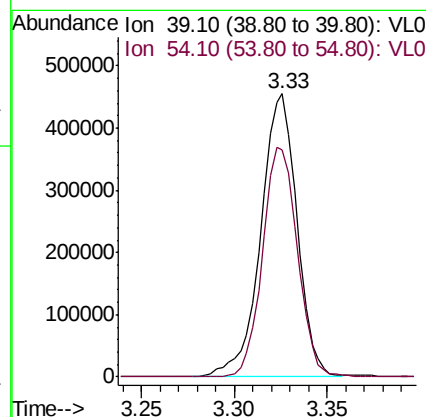
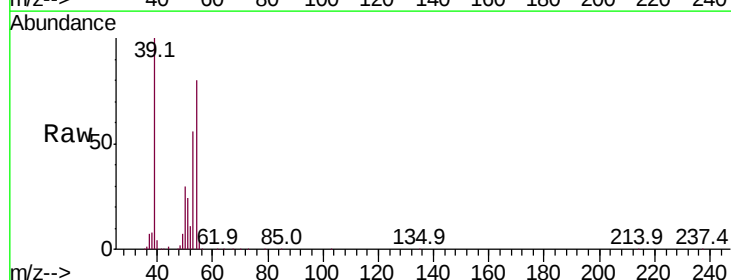
Manual Integrations
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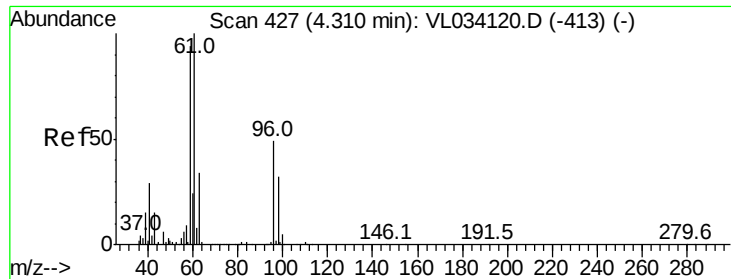
MMDadoda
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#16
1,3-Butadiene
Concen: 9.162 ppbv
RT: 3.33 min Scan# 121
Delta R.T. 0.00 min
Lab File: VL034127.D
Acq: 5 Sep 2019 7:05

Tgt Ion: 39 Resp: 616331
Ion Ratio Lower Upper
39 100
54 78.4 63.5 95.3





#17

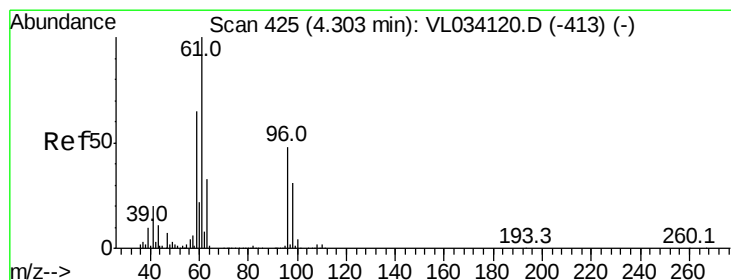
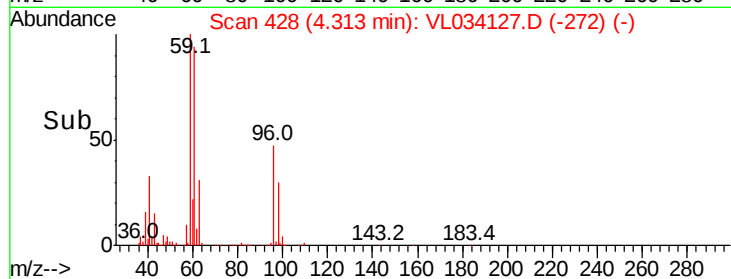
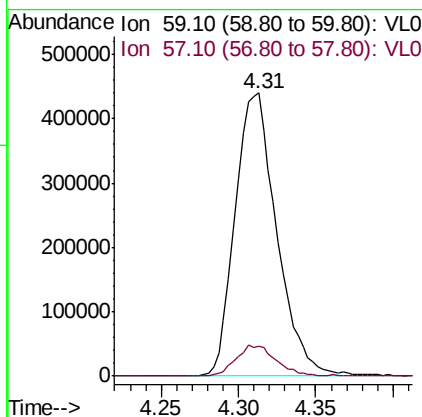
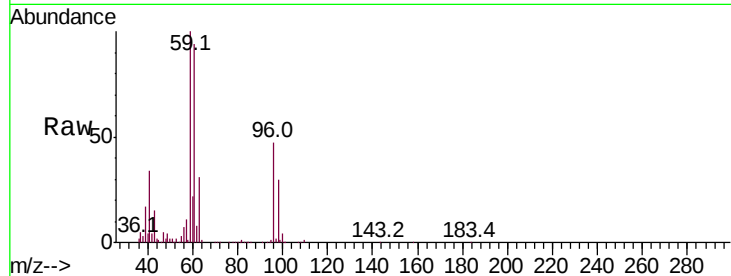
tert-Butyl alcohol
Concen: 8.506 ppbv
RT: 4.31 min Scan# 428
Delta R.T. 0.00 min
Lab File: VL034127.D
Acq: 5 Sep 2019 7:05

Instrument :
MSVOA_L
ClientSampleId :
ICVVL090519

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.6	12.8

Manual Integrations
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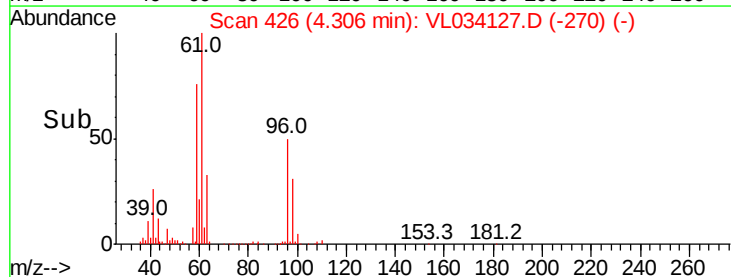
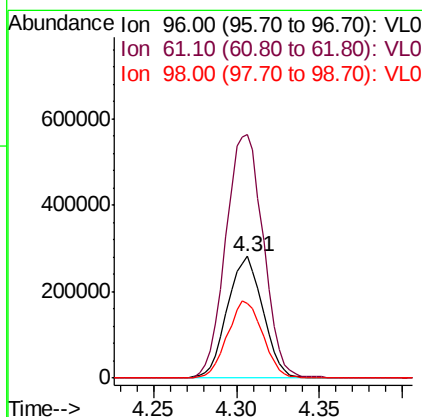
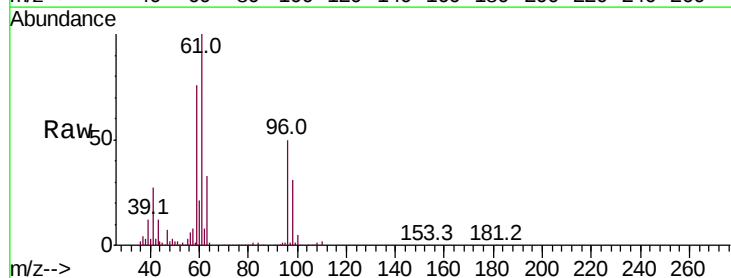
MMDadoda
9/12/2019 5:15:03 AM

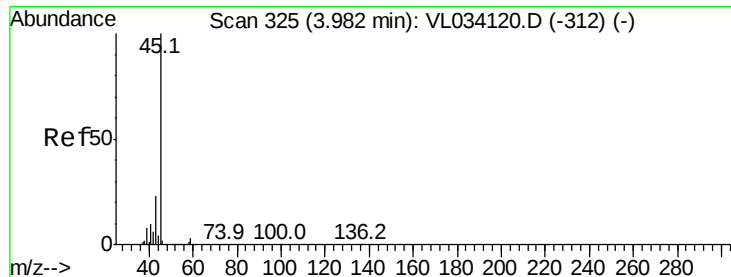


#18

1,1-Dichloroethene
Concen: 9.243 ppbv
RT: 4.31 min Scan# 426
Delta R.T. 0.00 min
Lab File: VL034127.D
Acq: 5 Sep 2019 7:05

Tgt Ion	Ratio	Lower	Upper
96	100		
61	200.0	165.8	248.8
98	61.3	50.8	76.2





#19

Isopropyl Alcohol

Concen: 8.387 ppbv

RT: 3.98 min Scan# 325

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA_L

ClientSampleId :

ICVVL090519

Tot Ion: 45 Resp: 751920

Ion Ratio Lower Upper

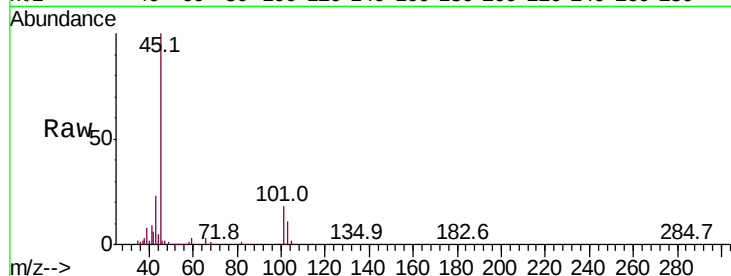
45 100

58 37.0 1.0 1.6#

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.98

400000

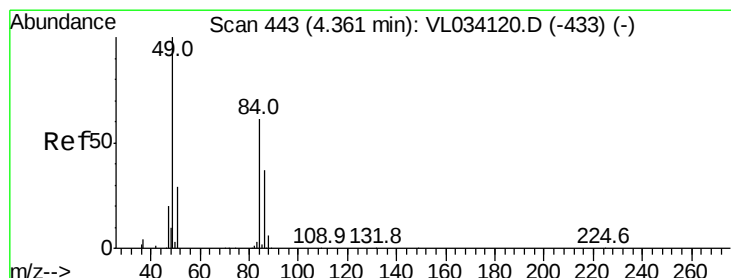
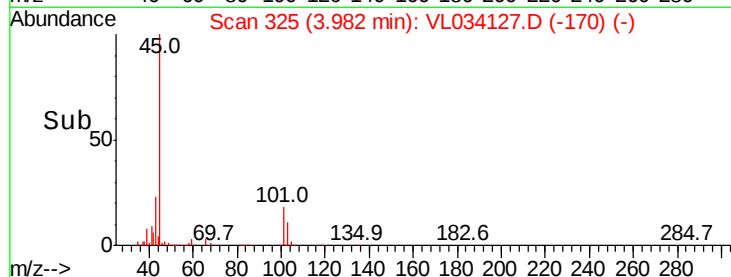
300000

200000

100000

0

Time--> 3.90 3.95 4.00 4.05



#20

Methylene Chloride

Concen: 8.418 ppbv

RT: 4.36 min Scan# 444

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Tgt Ion: 84 Resp: 369726

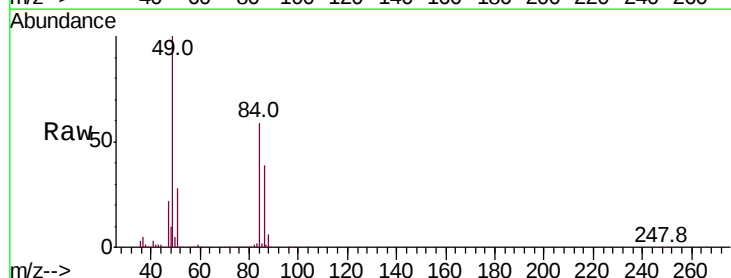
Ion Ratio Lower Upper

84 100

49 167.3 131.0 196.6

51 47.0 38.1 57.1

86 66.6 49.0 73.6



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

600000

500000

400000

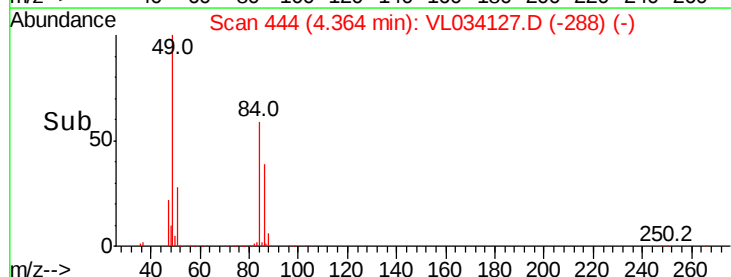
300000

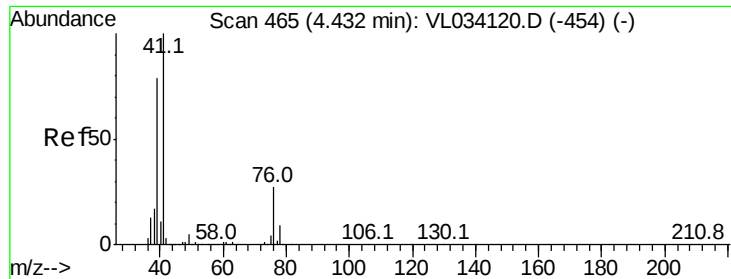
200000

100000

0

Time--> 4.30 4.35 4.40





#21

Allvl Chloride

Concen: 9.258 ppbv

RT: 4.43 min Scan# 465

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA_L

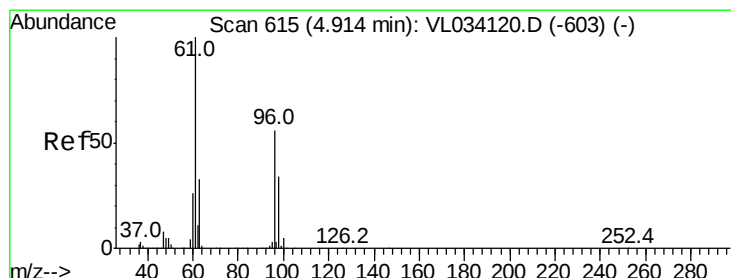
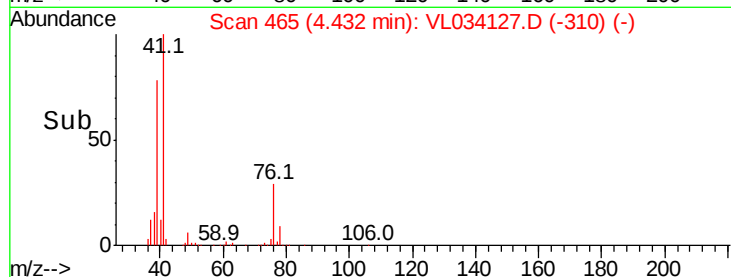
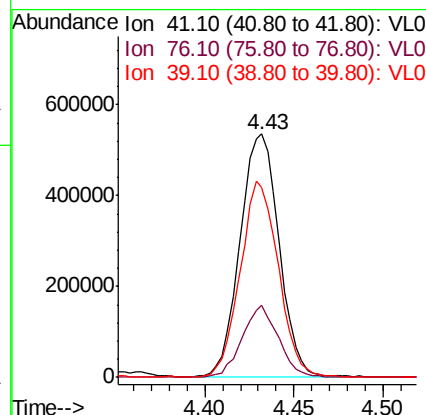
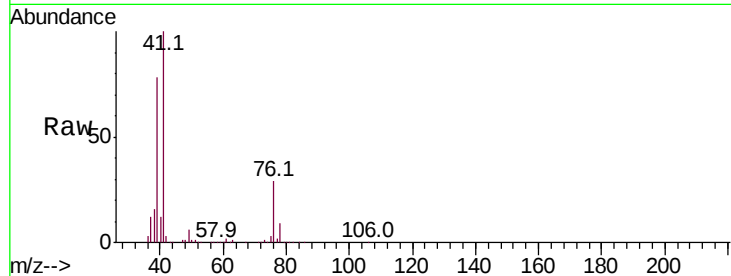
ClientSampleId :

ICVVL090519

Tot Ion:	41	Resp:	810777
Ion	Ratio	Lower	Upper
41	100		
76	27.5	21.6	32.4
39	79.6	65.0	97.4

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#22

trans-1,2-Dichloroethene

Concen: 8.851 ppbv

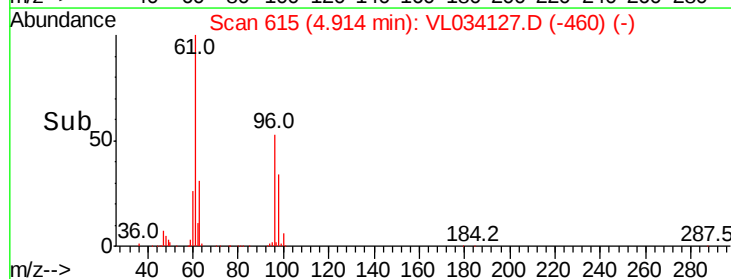
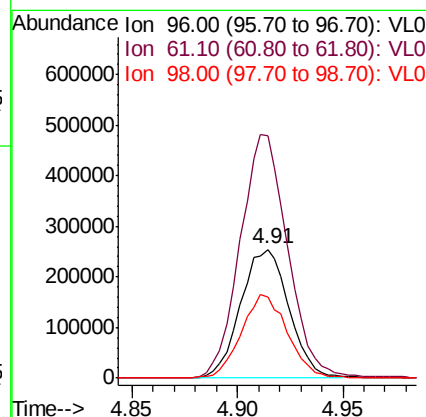
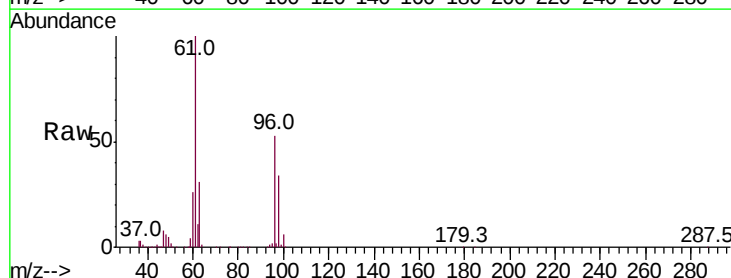
RT: 4.91 min Scan# 615

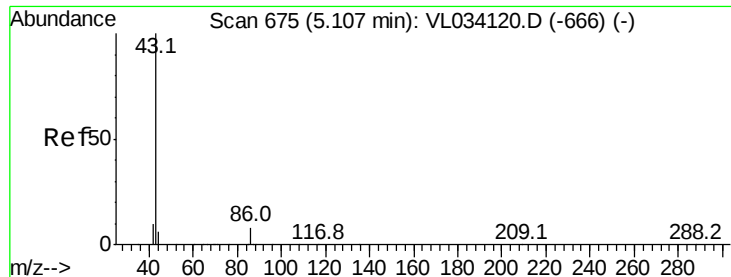
Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Tgt Ion:	96	Resp:	401478
Ion	Ratio	Lower	Upper
96	100		
61	188.4	143.1	214.7
98	63.2	49.0	73.4





#23

Vinyl Acetate

Concen: 9.438 ppbv

RT: 5.11 min Scan# 675

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA_L

ClientSampleId :

ICVVL090519

Tot Ion: 43 Resp: 2127005

Ion Ratio Lower Upper

43 100

86 6.3 5.5 8.3

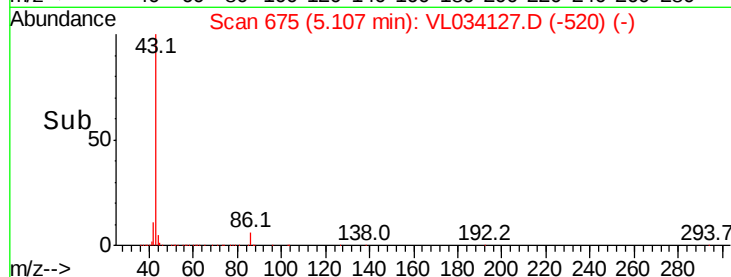
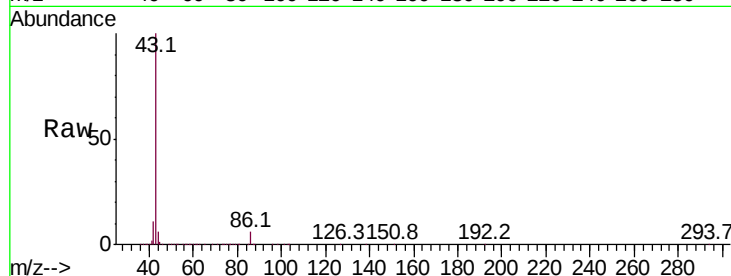
42 10.5 8.2 12.4

44 5.3 4.3 6.5

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9/12/2019 5:15:03 AM

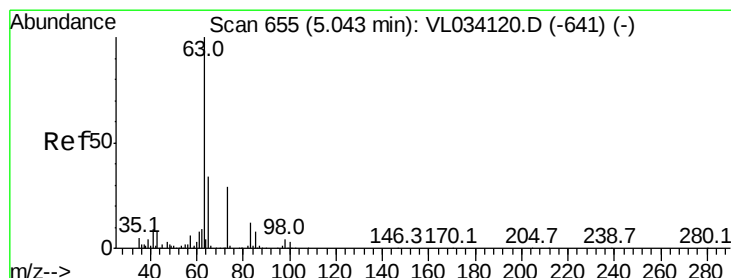
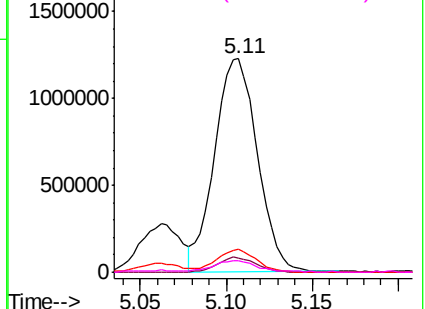


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 8.953 ppbv

RT: 5.04 min Scan# 655

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

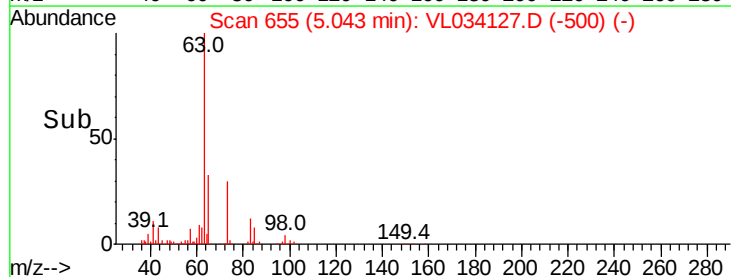
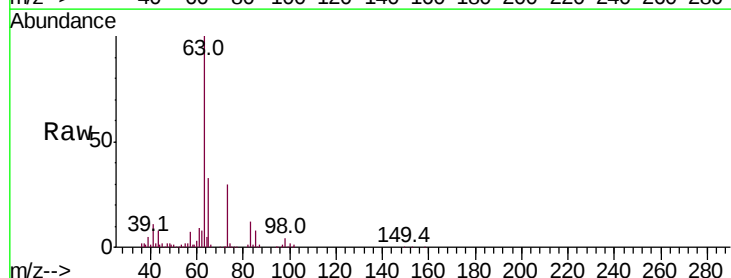
Tgt Ion: 63 Resp: 1339173

Ion Ratio Lower Upper

63 100

98 4.1 2.1 6.2

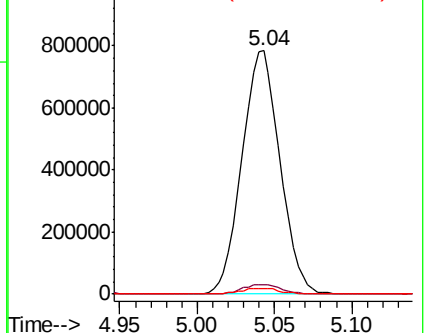
100 2.4 1.4 4.0

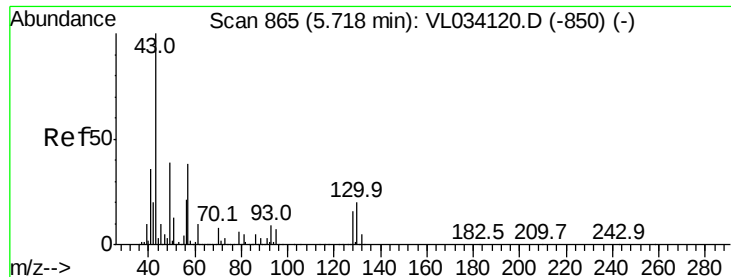


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 8.475 ppbv

RT: 5.71 min Scan# 864

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Tot Ion: 43 Resp: 2471237

Ion Ratio Lower Upper

43 100

45 10.3 8.2 12.4

61 9.2 7.4 11.2

70 7.1 5.6 8.4

Instrument :

MSVOA_L

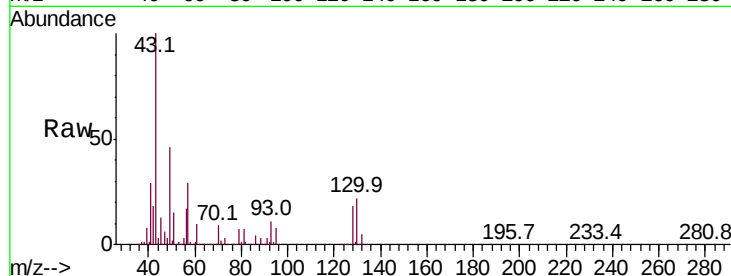
ClientSampleId :

ICVVL090519

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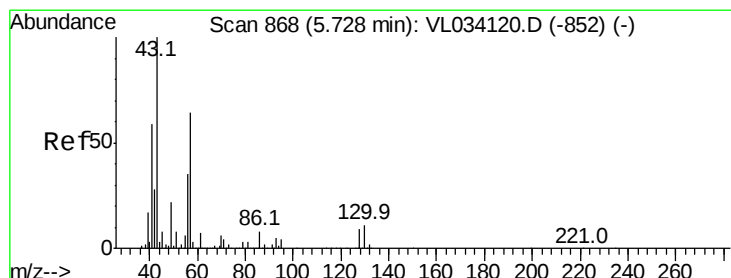
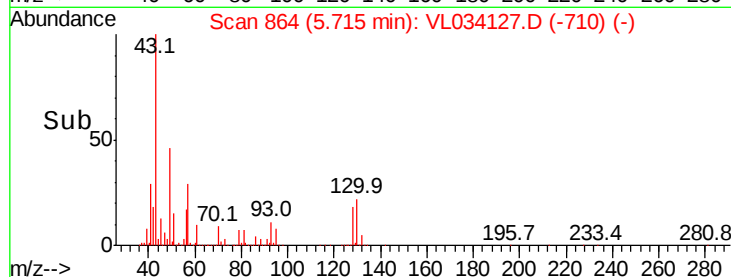
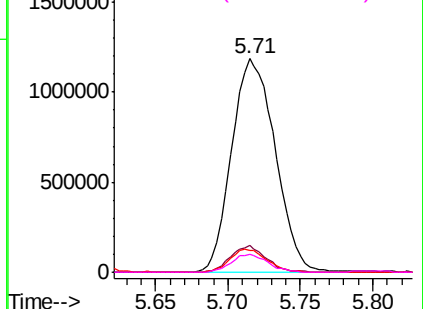


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 8.404 ppbv

RT: 5.73 min Scan# 868

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Tgt Ion: 57 Resp: 1089510

Ion Ratio Lower Upper

57 100

41 96.1 76.6 115.0

43 228.9 189.2 283.8

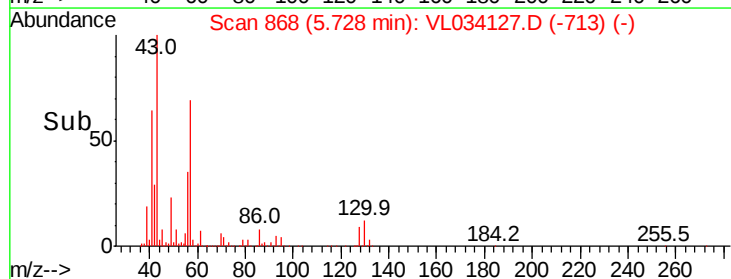
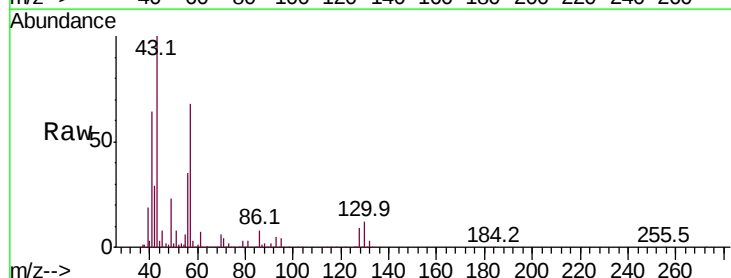
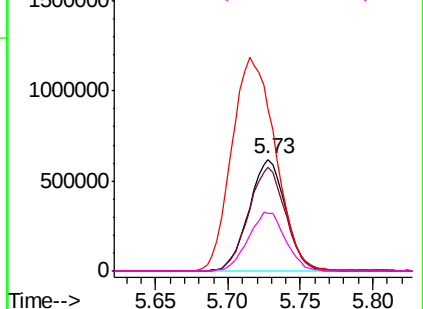
56 53.5 43.0 64.4

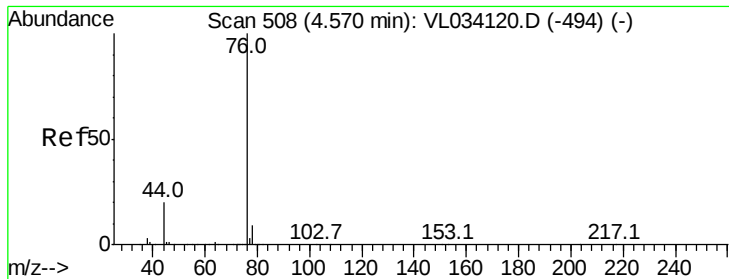
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 9.405 ppbv

RT: 4.57 min Scan# 509

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA_L

ClientSampleId :

ICVVL090519

Tot Ion: 76 Resp: 1100352

Ion Ratio Lower Upper

76 100

44 22.0 17.6 26.4

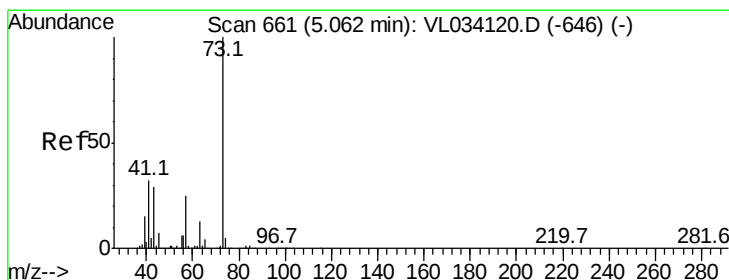
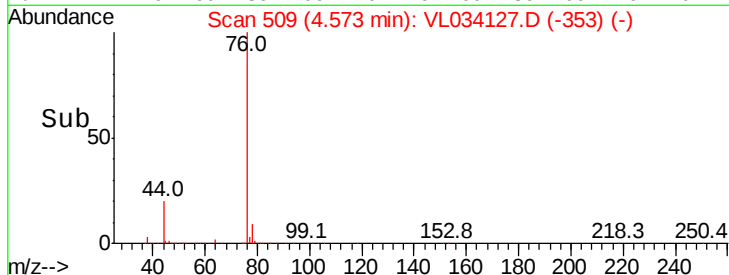
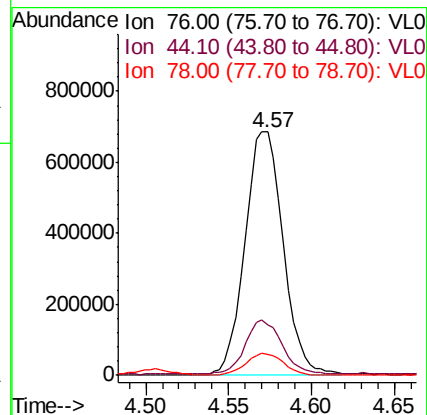
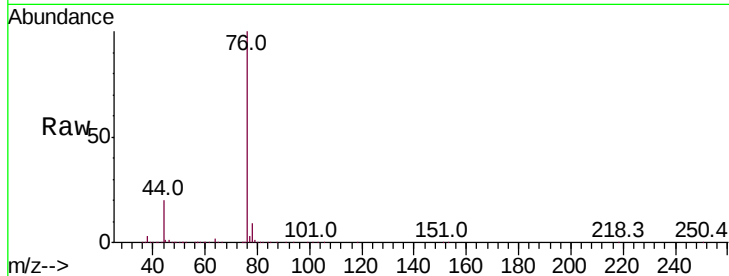
78 8.9 7.3 10.9

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#28

Methyl tert-Butyl Ether

Concen: 9.211 ppbv

RT: 5.06 min Scan# 661

Delta R.T. -0.00 min

Lab File: VL034127.D

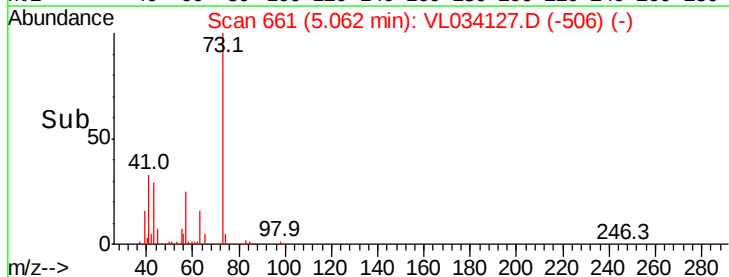
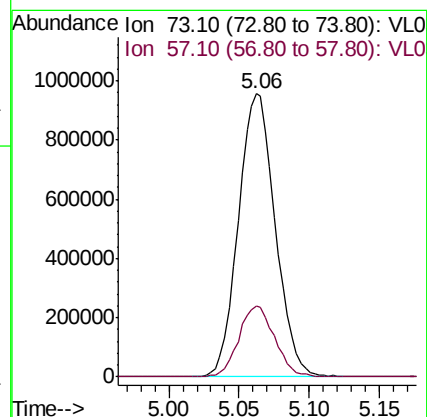
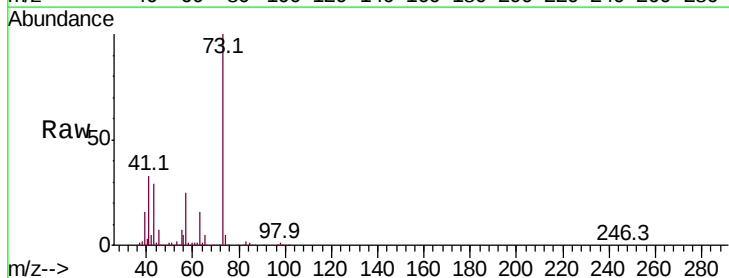
Acq: 5 Sep 2019 7:05

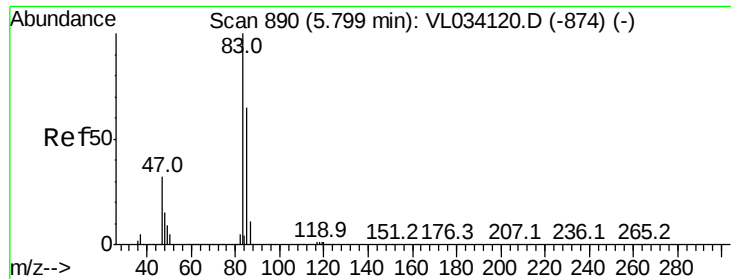
Tgt Ion: 73 Resp: 1749621

Ion Ratio Lower Upper

73 100

57 24.5 19.8 29.8





#29

Chloroform

Concen: 9.060 ppbv

RT: 5.80 min Scan# 889

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Tot Ion: 83 Resp: 1584158

Ion Ratio Lower Upper

83 100

85 63.6 51.8 77.6

Instrument :

MSVOA_L

ClientSampleId :

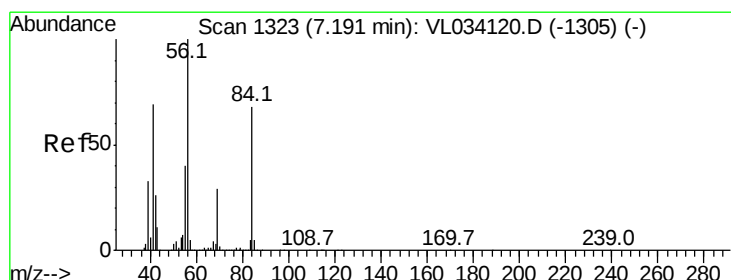
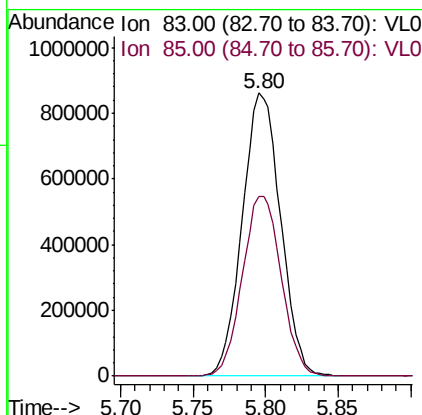
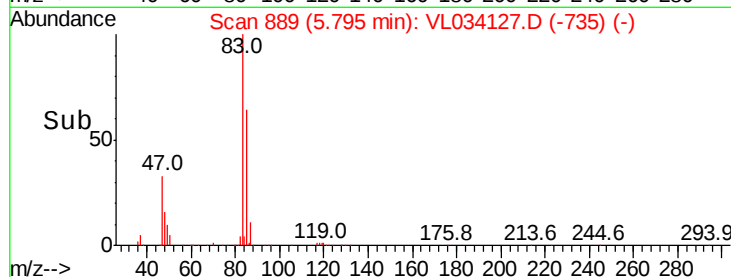
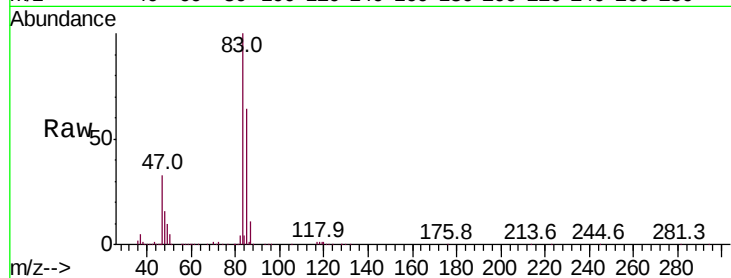
ICVVL090519

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#30

Cyclohexane

Concen: 9.508 ppbv

RT: 7.19 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

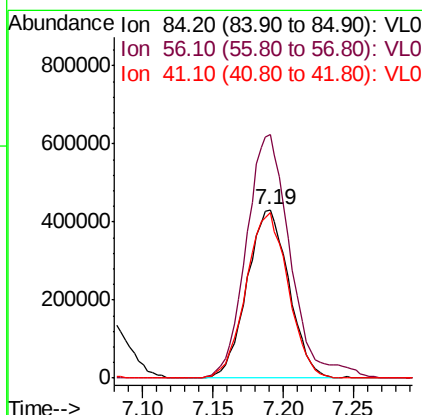
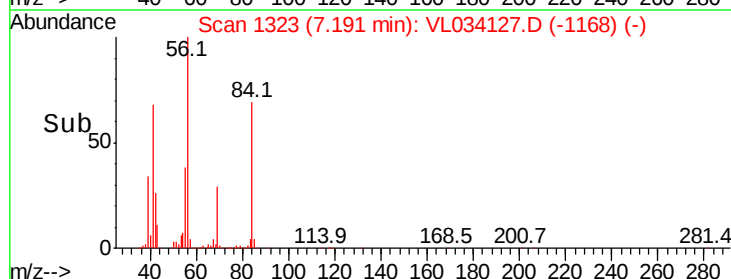
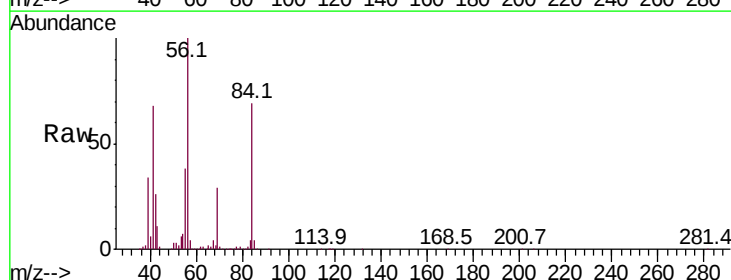
Tgt Ion: 84 Resp: 891131

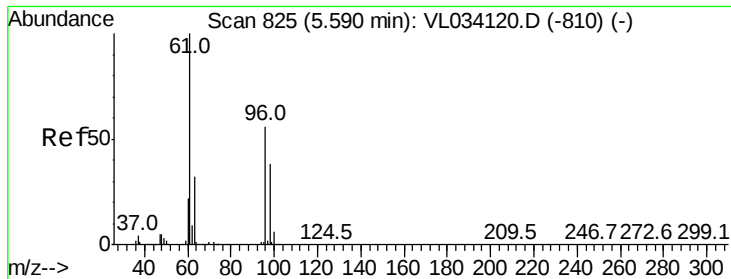
Ion Ratio Lower Upper

84 100

56 153.5 122.6 183.8

41 99.5 79.1 118.7





#31

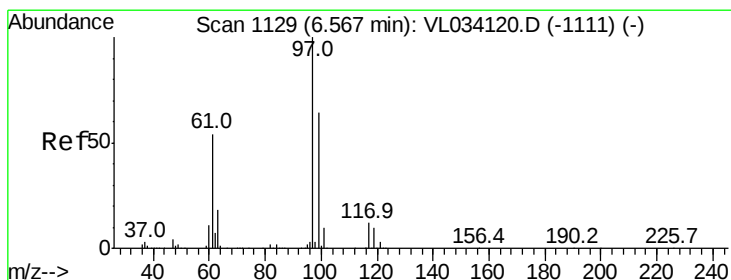
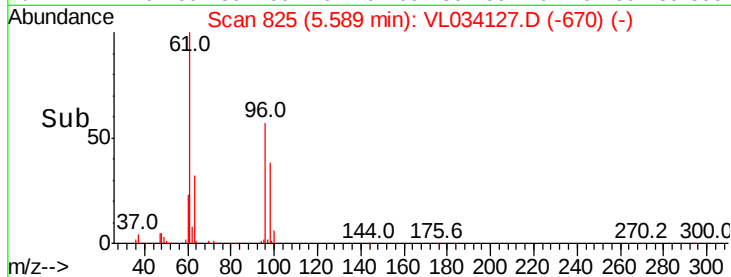
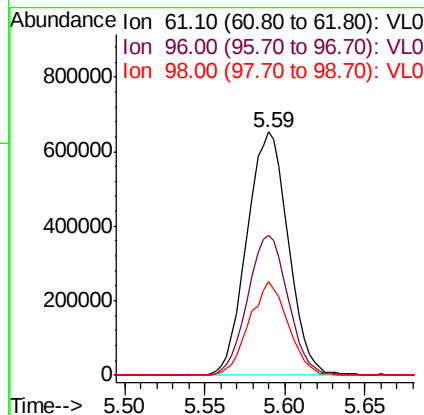
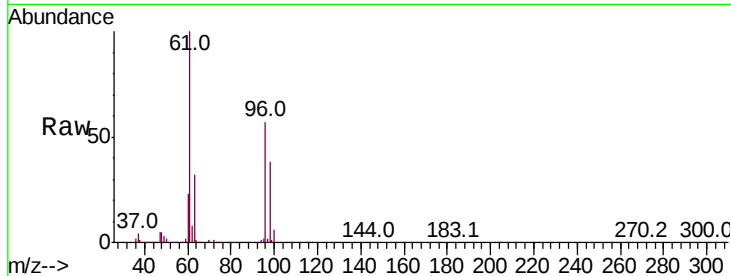
cis-1,2-Dichloroethene
 Concen: 9.286 ppbv
 RT: 5.59 min Scan# 825
 Delta R.T. -0.00 min
 Lab File: VL034127.D
 Acq: 5 Sep 2019 7:05

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL090519

Tot Ion	Ratio	Lower	Upper
61	100		
96	57.3	44.4	66.6
98	38.3	30.0	45.0

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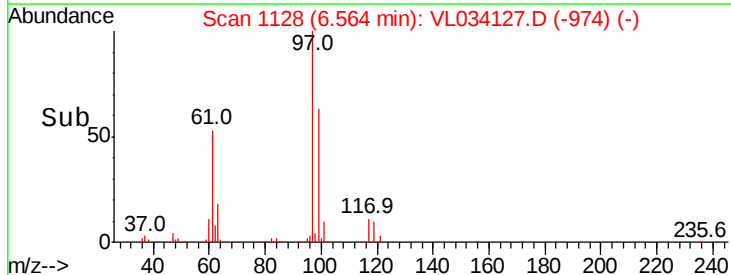
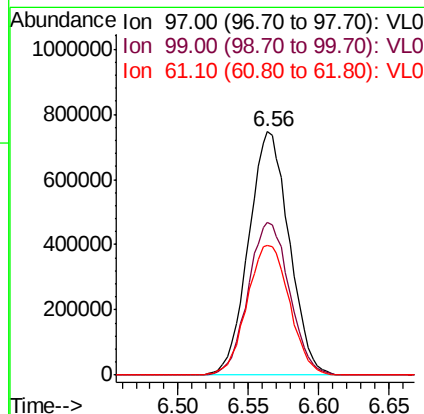
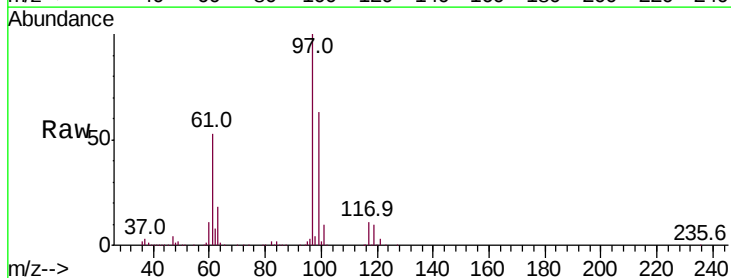
MMDadoda
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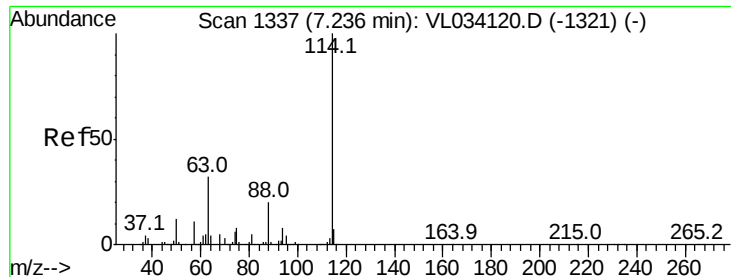


#32

1,1,1-Trichloroethane
 Concen: 9.089 ppbv
 RT: 6.56 min Scan# 1128
 Delta R.T. -0.00 min
 Lab File: VL034127.D
 Acq: 5 Sep 2019 7:05

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.7	77.5
61	55.9	44.0	66.0





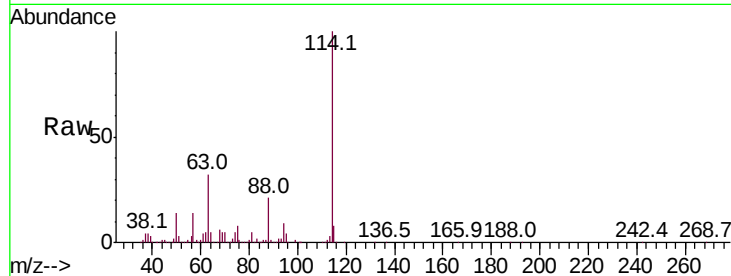
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1337
 Delta R.T. -0.00 min
 Lab File: VL034127.D
 Acq: 5 Sep 2019 7:05

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL090519

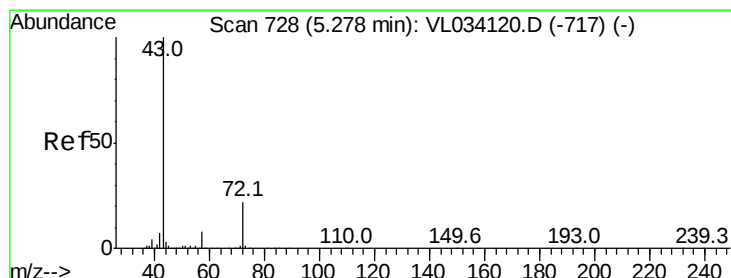
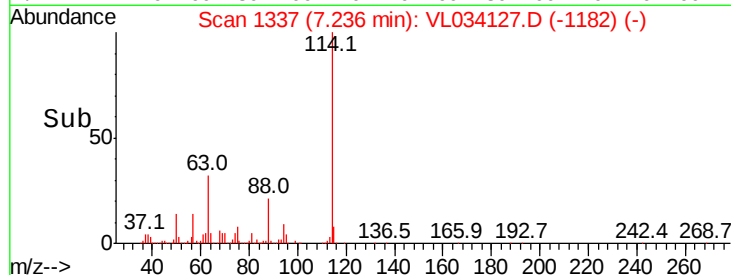
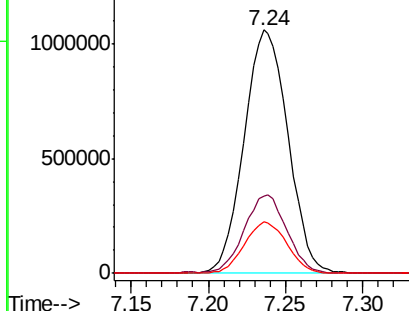
Tot Ion	Ratio	Lower	Upper
114	100		
63	31.8	25.5	38.3
88	20.6	16.8	25.2

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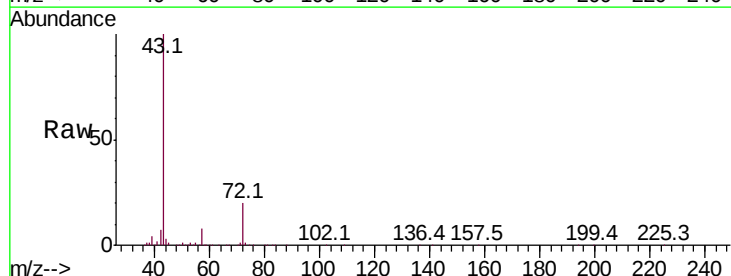


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

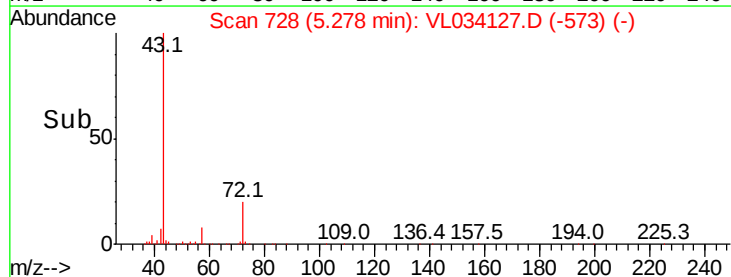
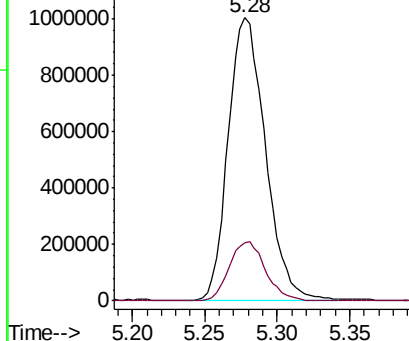


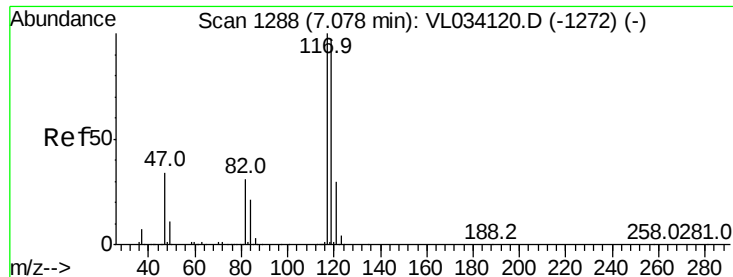
#34
 2-Butanone
 Concen: 8.893 ppbv
 RT: 5.28 min Scan# 728
 Delta R.T. -0.00 min
 Lab File: VL034127.D
 Acq: 5 Sep 2019 7:05

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.3	16.5	24.7



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 8.797 ppbv

RT: 7.08 min Scan# 1288

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA_L

ClientSampleId :

ICVVL090519

Tot Ion:117 Resp: 1433566

Ion Ratio Lower Upper

117 100

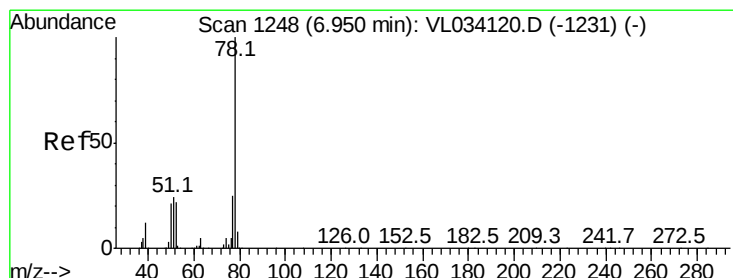
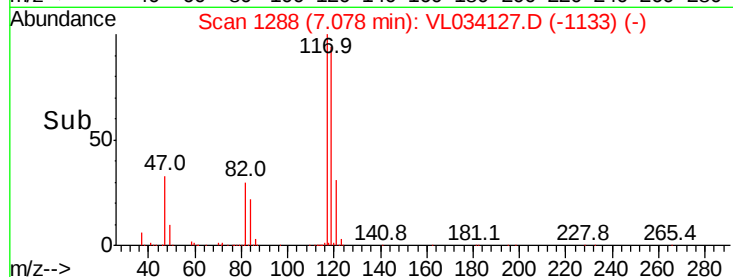
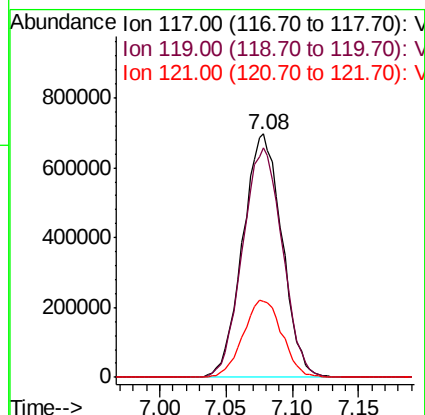
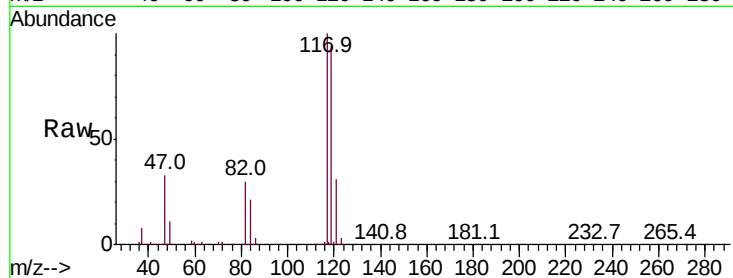
119 94.1 77.2 115.8

121 30.9 24.2 36.4

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#36

Benzene

Concen: 8.952 ppbv

RT: 6.95 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

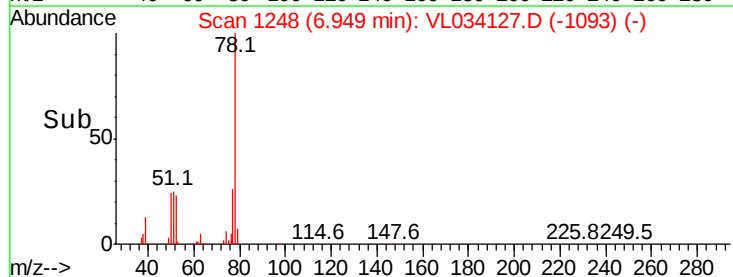
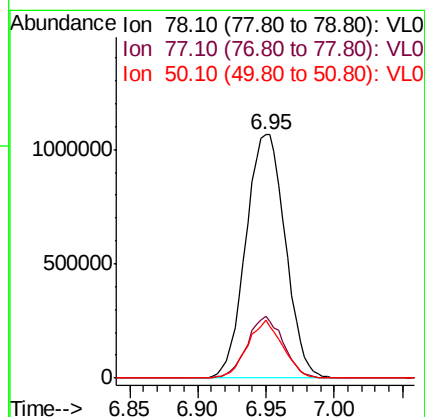
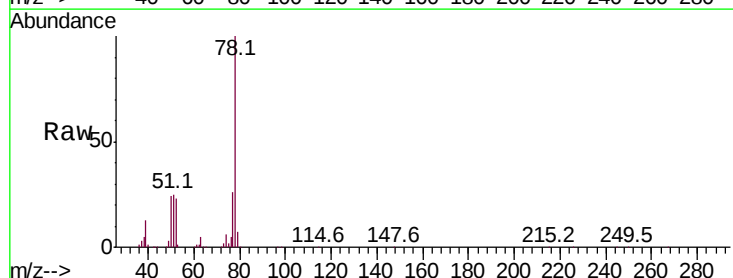
Tgt Ion: 78 Resp: 2138779

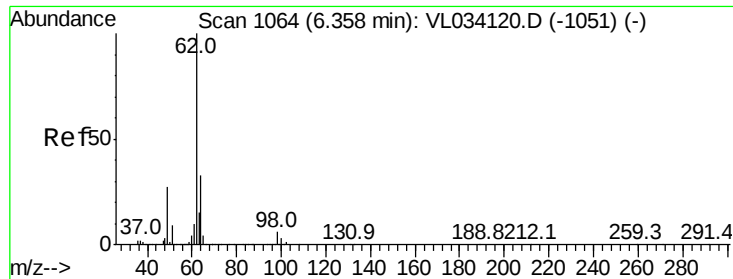
Ion Ratio Lower Upper

78 100

77 25.6 20.3 30.5

50 23.7 16.9 25.3





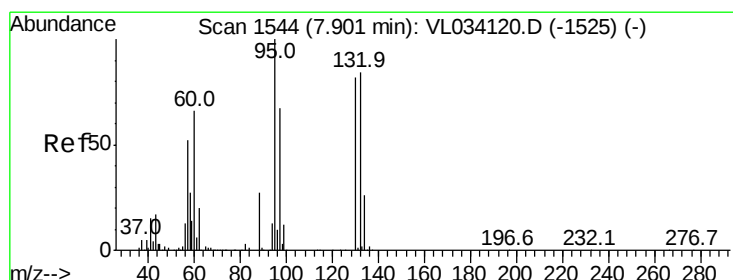
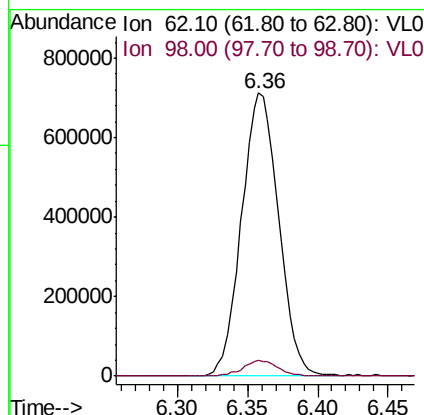
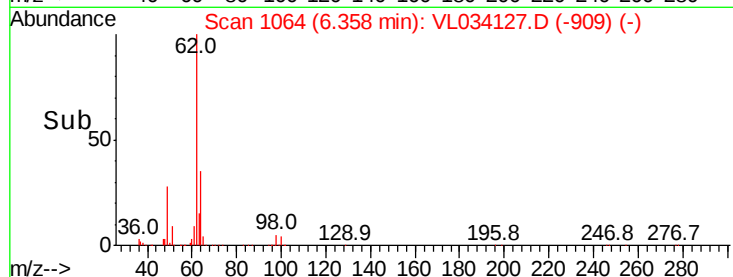
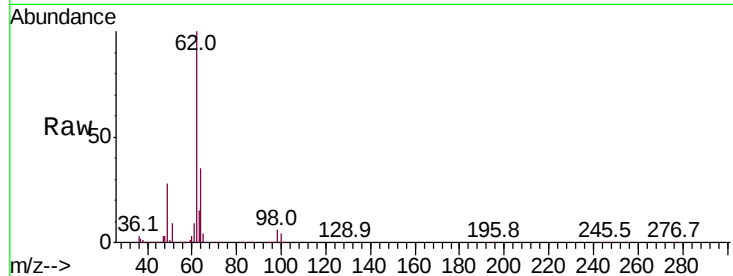
#37
1,2-Dichloroethane
Concen: 8.971 ppbv
RT: 6.36 min Scan# 1064
Delta R.T. -0.00 min
Lab File: VL034127.D
Acq: 5 Sep 2019 7:05

Instrument :
MSVOA_L
ClientSampleId :
ICVVL090519

Tot Ion: 62 Resp: 1314713
Ion Ratio Lower Upper
62 100
98 5.3 4.4 6.6

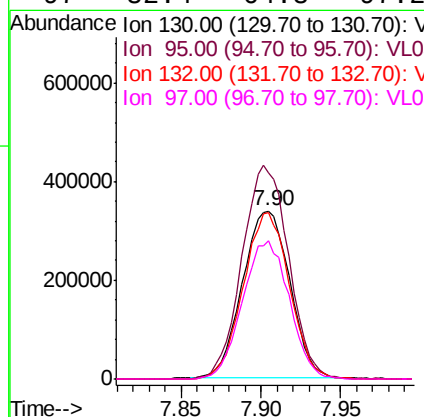
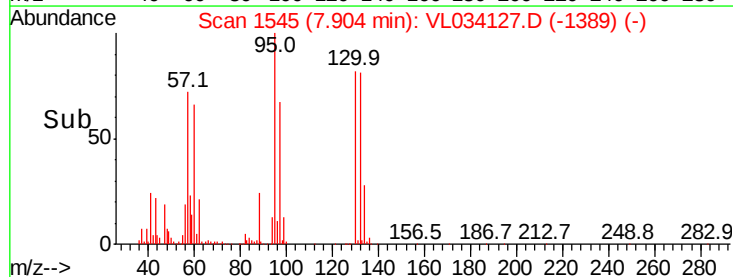
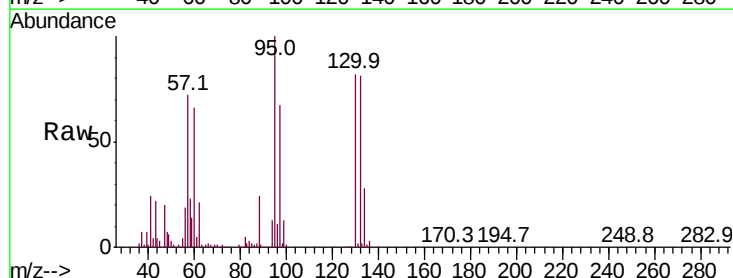
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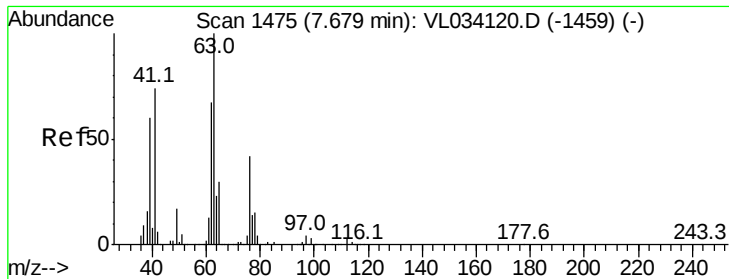
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#38
Trichloroethene
Concen: 7.671 ppbv
RT: 7.90 min Scan# 1545
Delta R.T. 0.00 min
Lab File: VL034127.D
Acq: 5 Sep 2019 7:05

Tgt Ion:130 Resp: 683853
Ion Ratio Lower Upper
130 100
95 122.9 97.2 145.8
132 99.3 81.4 122.2
97 82.4 64.8 97.2





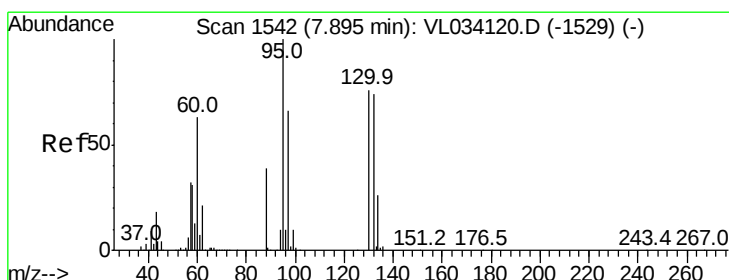
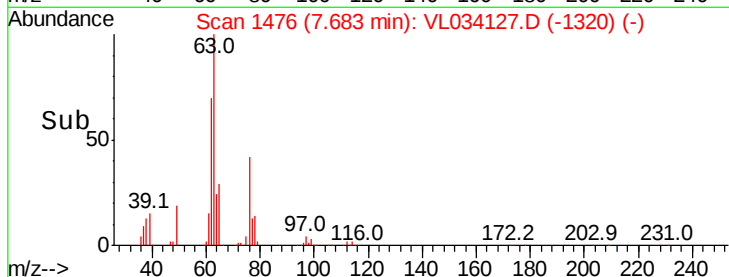
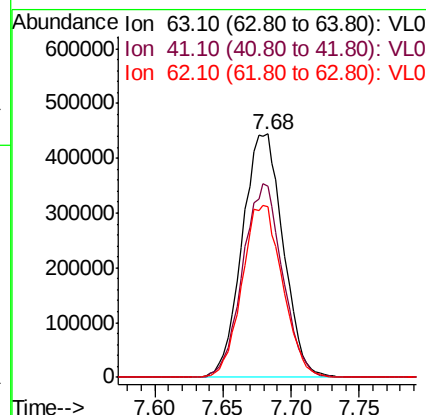
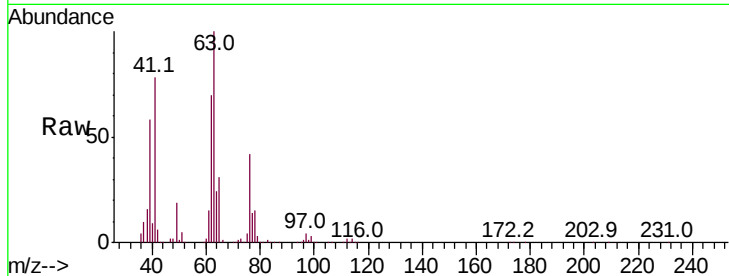
#39
 1,2-Dichloropropane
 Concen: 9.057 ppbv
 RT: 7.68 min Scan# 1476
 Delta R.T. 0.00 min
 Lab File: VL034127.D
 Acq: 5 Sep 2019 7:05

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL090519

Tot Ion	Ratio	Resp	Lower	Upper
63	100	925948		
41	78.3	59.3	88.9	
62	70.0	53.8	80.6	

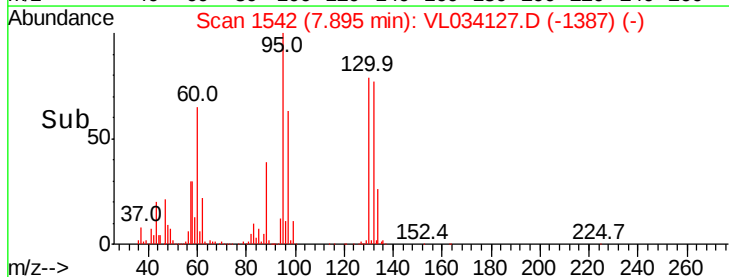
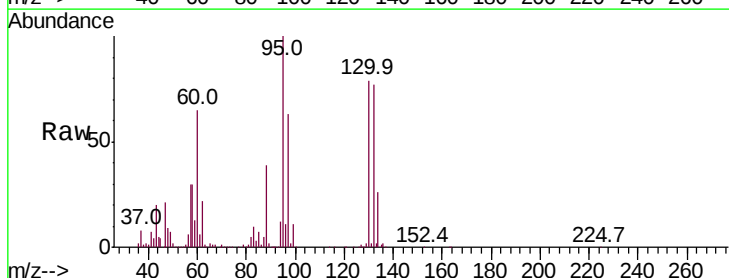
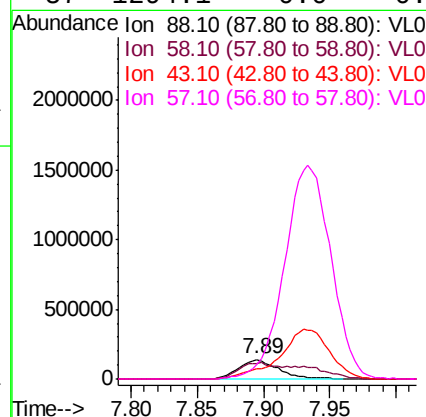
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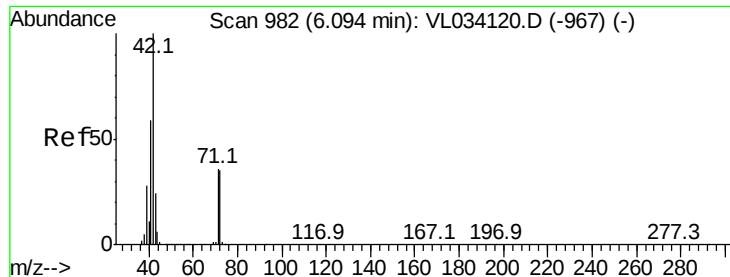
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#40
 1,4-Dioxane
 Concen: 7.759 ppbv
 RT: 7.89 min Scan# 1542
 Delta R.T. -0.00 min
 Lab File: VL034127.D
 Acq: 5 Sep 2019 7:05

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	291536		
58	146.2	121.7	182.5	
43	320.3	0.0	0.0#	
57	1294.1	0.0	0.0#	





#41

Tetrahydrofuran

Concen: 9.219 ppbv

RT: 6.09 min Scan# 981

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA_L

ClientSampleId :

ICVVL090519

Tot Ion: 42 Resp: 1110621

Ion Ratio Lower Upper

42 100

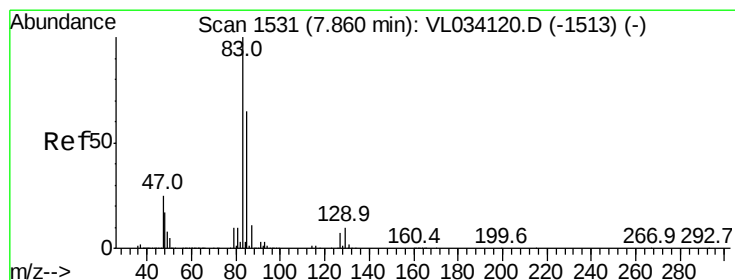
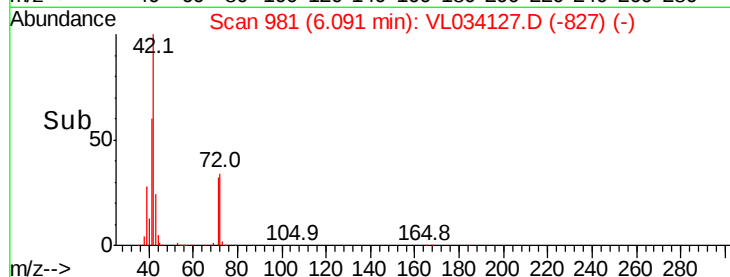
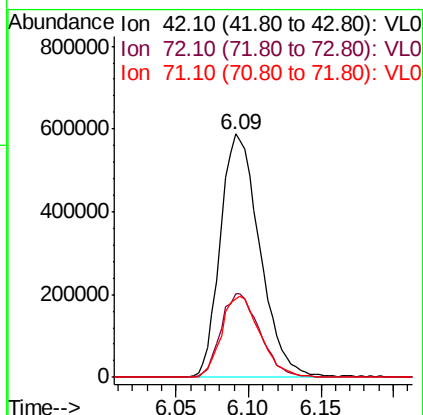
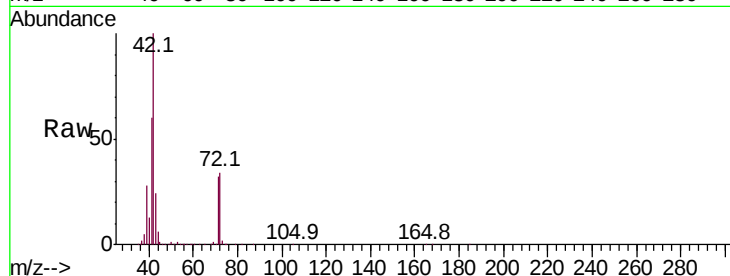
72 34.2 27.7 41.5

71 32.8 26.7 40.1

Manual Integrations
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#42

Bromodichloromethane

Concen: 9.091 ppbv

RT: 7.86 min Scan# 1532

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

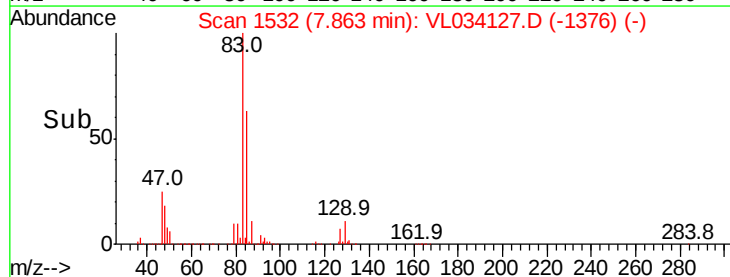
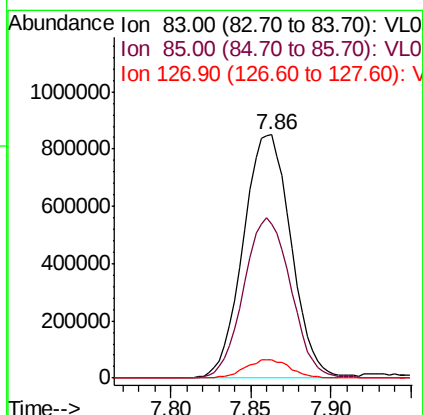
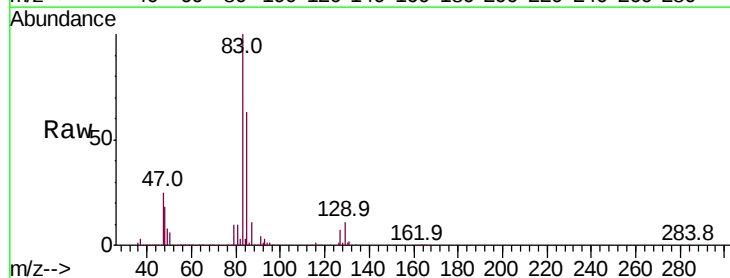
Tgt Ion: 83 Resp: 1736412

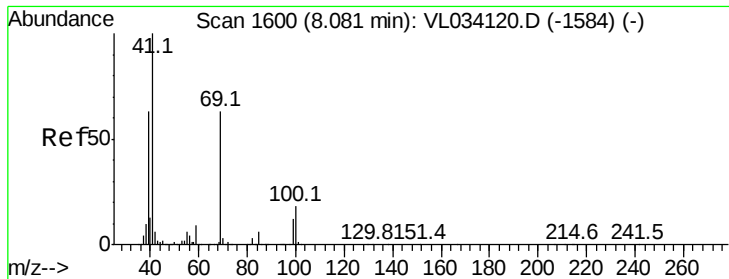
Ion Ratio Lower Upper

83 100

85 63.4 51.6 77.4

127 7.5 5.4 8.0





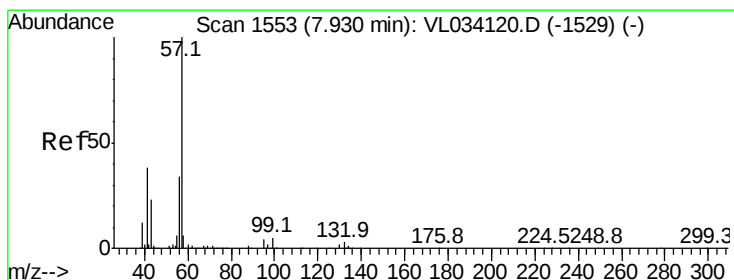
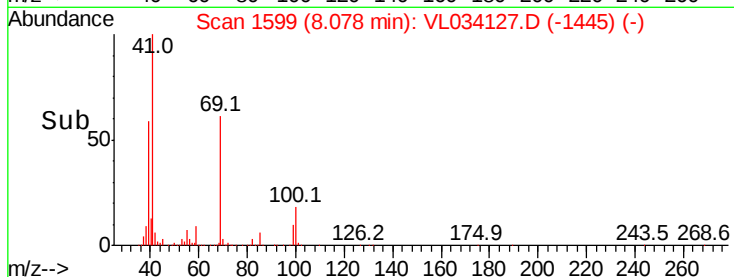
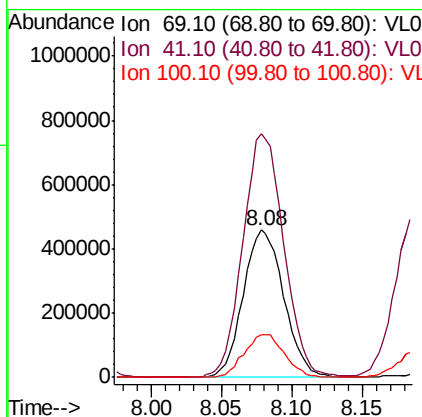
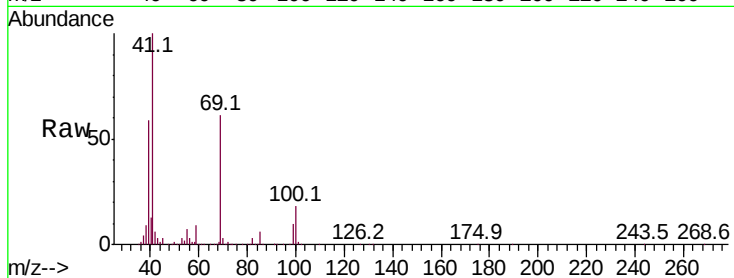
#43
Methvl Methacrvlate
Concen: 9.390 ppbv
RT: 8.08 min Scan# 1599
Delta R.T. -0.00 min
Lab File: VL034127.D
Acq: 5 Sep 2019 7:05

Instrument :
MSVOA_L
ClientSampleId :
ICVVL090519

Tot Ion	Ratio	Lower	Upper
69	100		
41	166.3	131.0	196.6
100	28.9	22.6	33.8

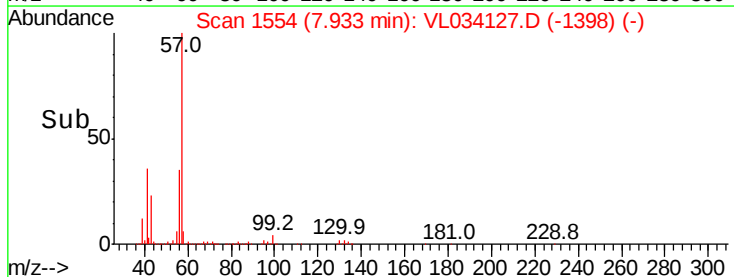
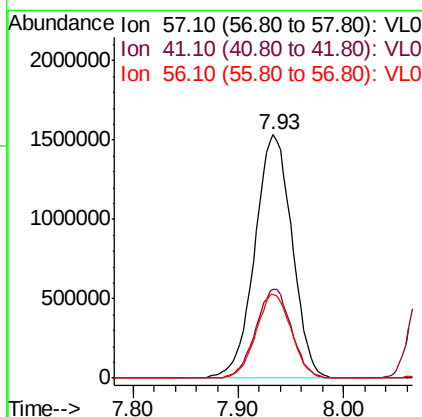
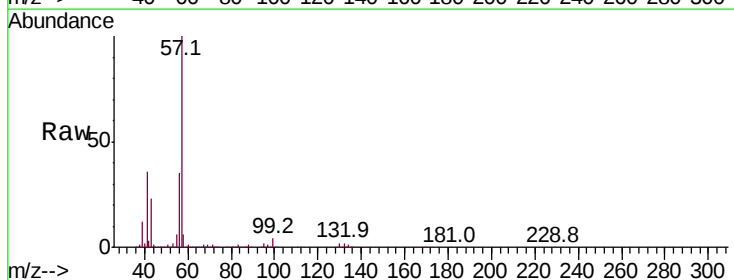
Manual Integrations
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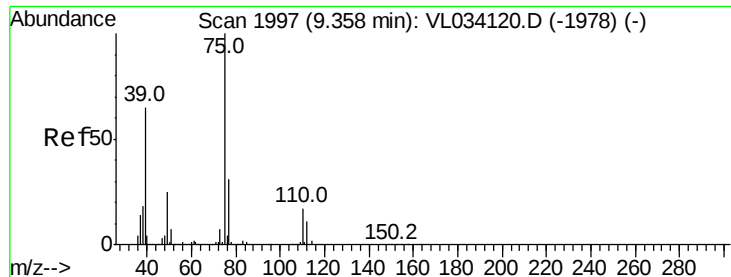
MMDadoda
9/12/2019 5:15:03 AM



#44
2,2,4-Trimethylpentane
Concen: 8.553 ppbv
RT: 7.93 min Scan# 1554
Delta R.T. 0.00 min
Lab File: VL034127.D
Acq: 5 Sep 2019 7:05

Tgt Ion	Ratio	Lower	Upper
57	100		
41	35.1	28.4	42.6
56	32.7	26.3	39.5





#45

t-1,3-Dichloropropene

Concen: 9.521 ppbv

RT: 9.35 min Scan# 1996

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA_L

ClientSampleId :

ICVVL090519

Tot Ion: 75 Resp: 1101320

Ion Ratio Lower Upper

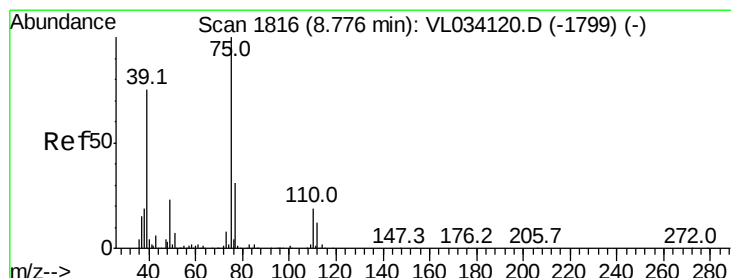
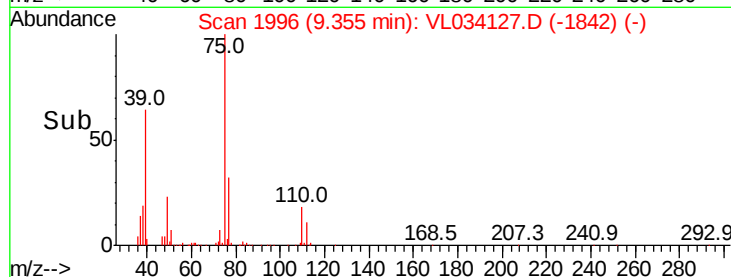
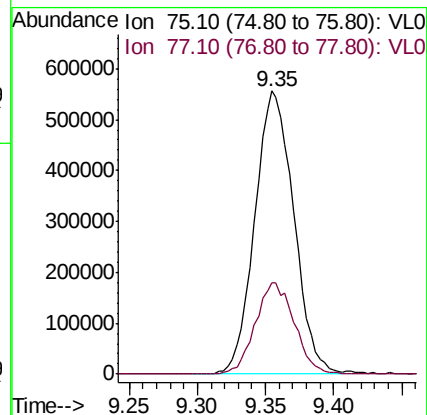
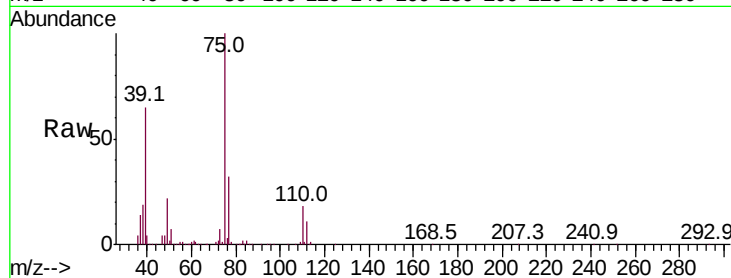
75 100

77 32.3 24.6 36.8

Manual Integrations
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MMDadoda

9/12/2019 5:15:03 AM



#46

cis-1,3-Dichloropropene

Concen: 9.230 ppbv

RT: 8.78 min Scan# 1817

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

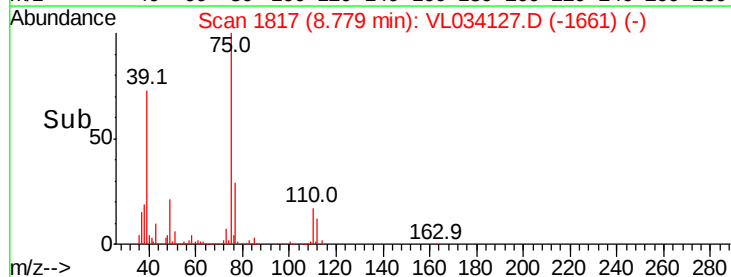
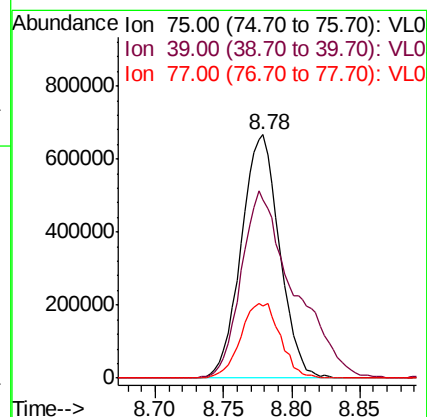
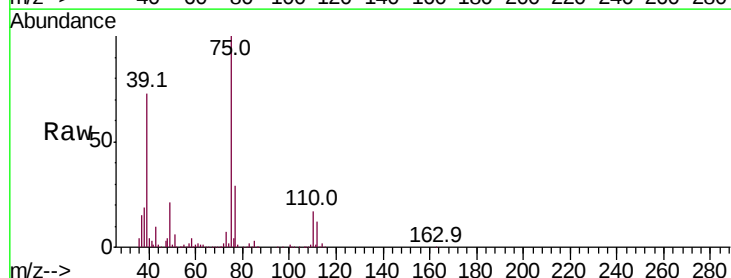
Tgt Ion: 75 Resp: 1299022

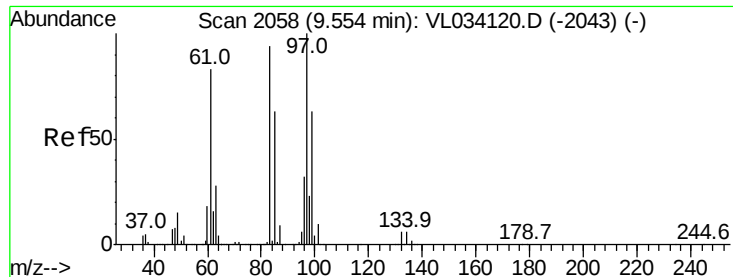
Ion Ratio Lower Upper

75 100

39 73.1 60.0 90.0

77 29.5 24.8 37.2





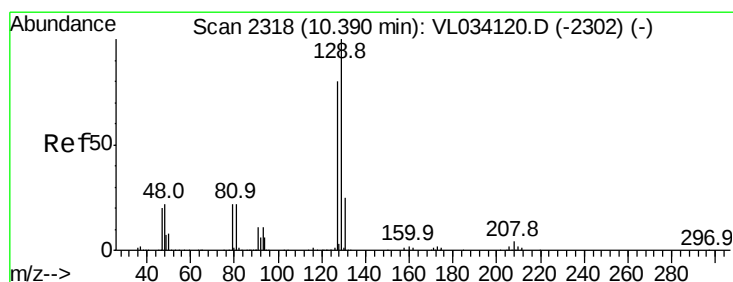
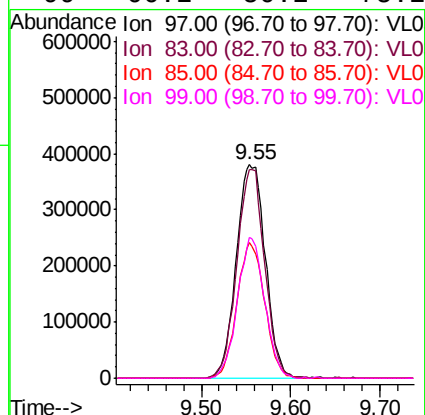
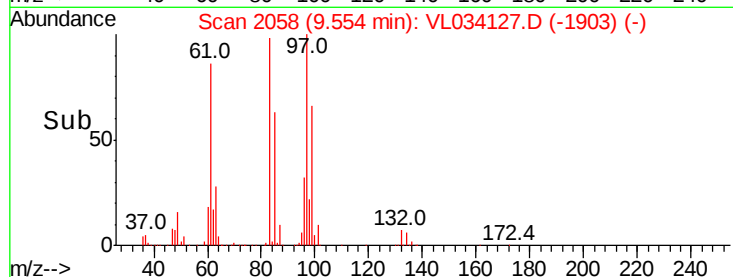
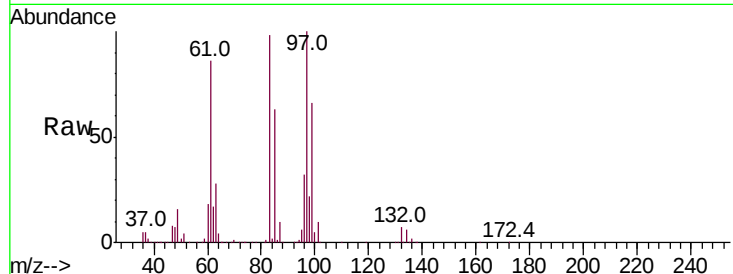
#47
 1,1,2-Trichloroethane
 Concen: 9.217 ppbv m
 RT: 9.55 min Scan# 2058
 Delta R.T. -0.00 min
 Lab File: VL034127.D
 Acq: 5 Sep 2019 7:05

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL090519

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		858544		
83	97.9	74.9	112.3		
85	63.5	50.6	75.8		
99	66.2	50.2	75.2		

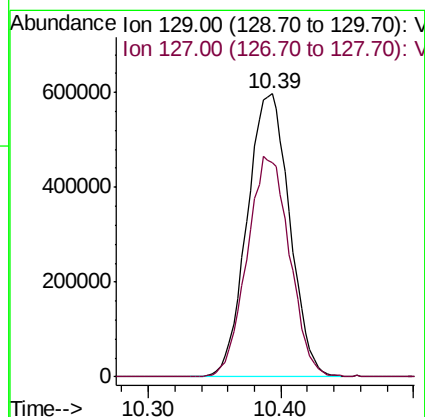
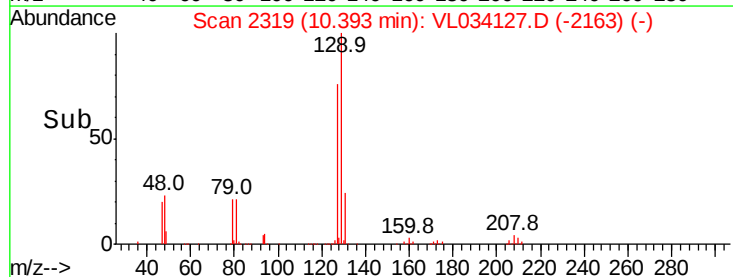
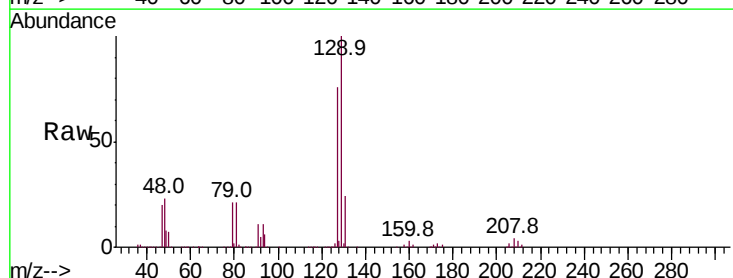
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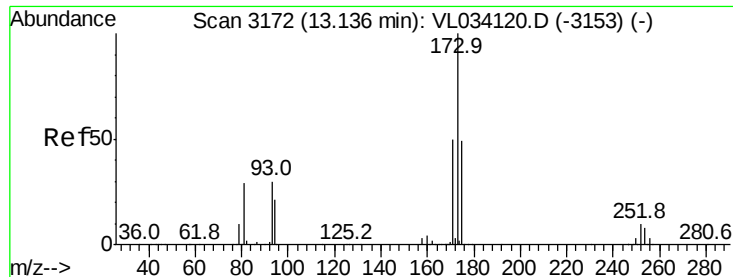
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 9/12/2019 5:15:03 AM



#48
 Dibromochloromethane
 Concen: 9.574 ppbv
 RT: 10.39 min Scan# 2319
 Delta R.T. 0.00 min
 Lab File: VL034127.D
 Acq: 5 Sep 2019 7:05

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		1330658		
127	78.2	40.2	120.6		





#49

Bromoform

Concen: 9.450 ppbv

RT: 13.14 min Scan# 3172

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA_L

ClientSampleId :

ICVVL090519

Tot Ion:173 Resp: 1151541

Ion Ratio Lower Upper

173 100

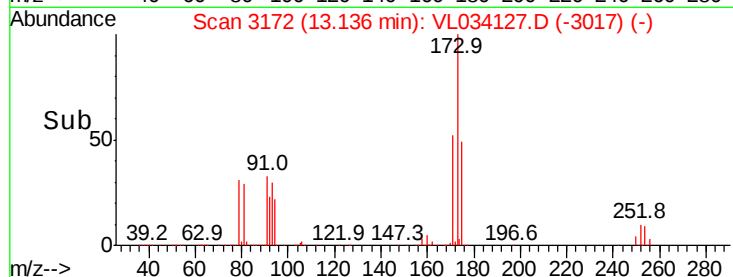
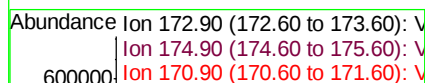
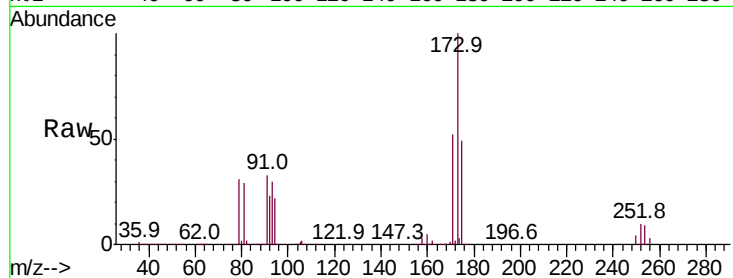
175 48.6 40.0 60.0

171 51.8 42.2 63.2

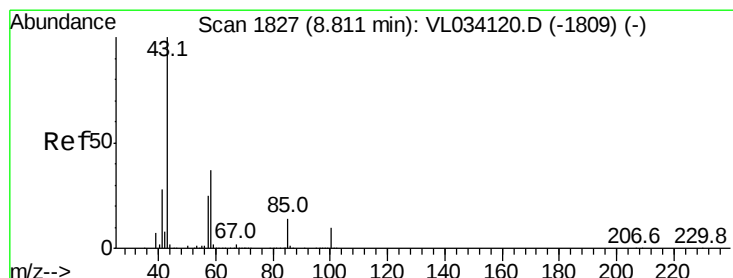
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Time-->



#50

4-Methyl-2-Pentanone

Concen: 8.658 ppbv

RT: 8.81 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VL034127.D

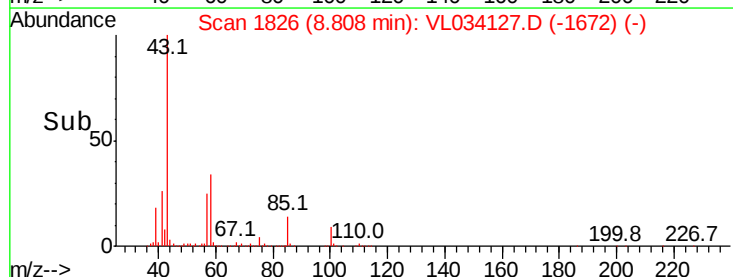
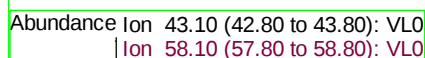
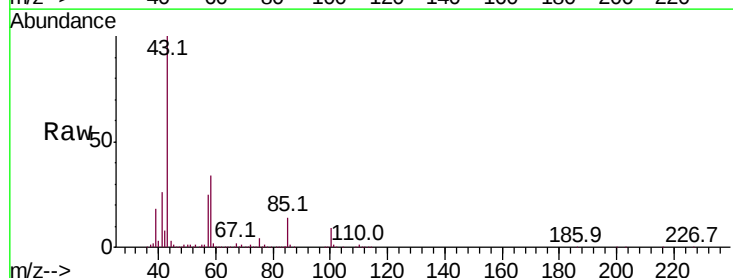
Acq: 5 Sep 2019 7:05

Tgt Ion: 43 Resp: 2654818

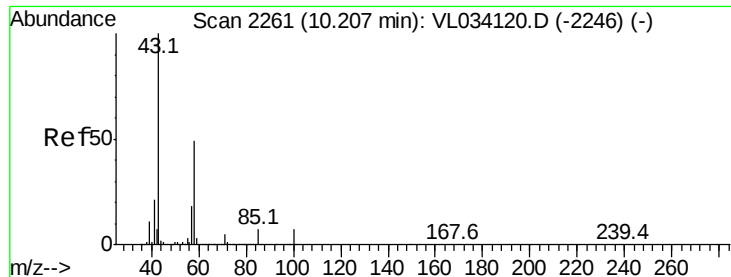
Ion Ratio Lower Upper

43 100

58 35.0 28.5 42.7



Time-->



#51

2-Hexanone

Concen: 8.611 ppbv

RT: 10.21 min Scan# 2262

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA_L

ClientSampleId :

ICVVL090519

Tot Ion: 43 Resp: 2280979

Ion Ratio Lower Upper

43 100

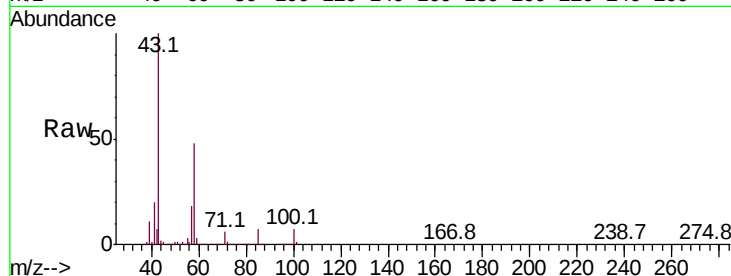
58 47.3 38.2 57.2

98 0.1 0.1 0.1#

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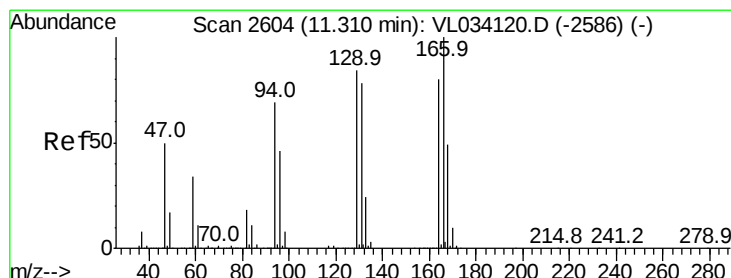
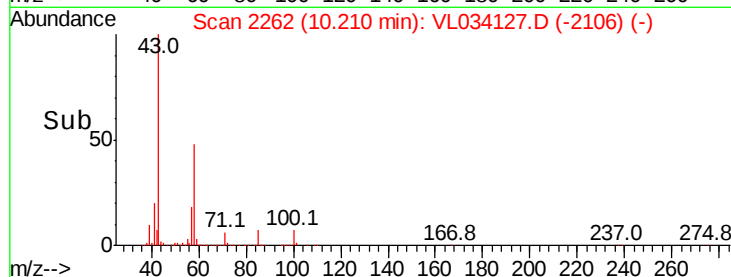
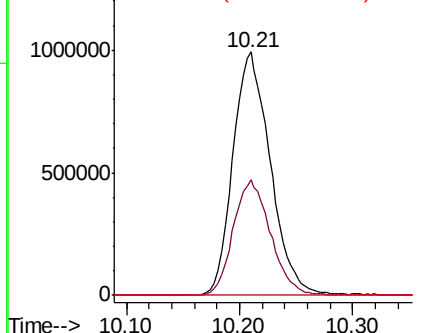
9/12/2019 5:15:03 AM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 8.081 ppbv

RT: 11.31 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Tgt Ion: 164 Resp: 680766

Ion Ratio Lower Upper

164 100

166 126.6 99.5 149.3

129 106.5 83.6 125.4

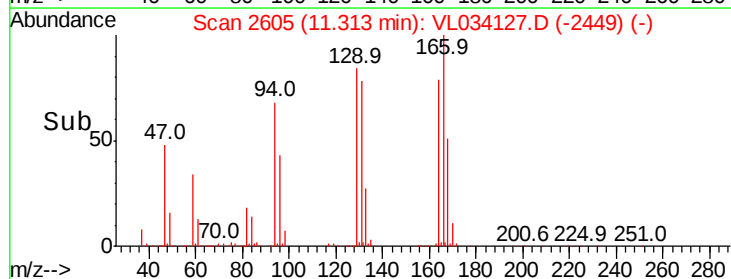
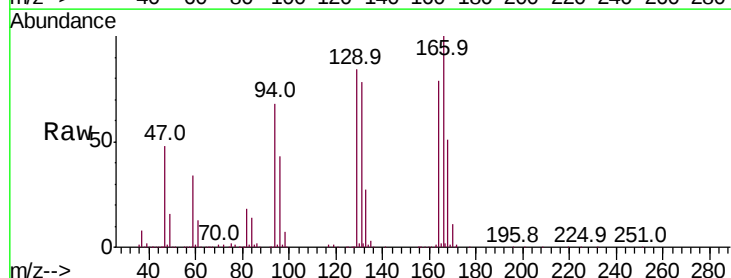
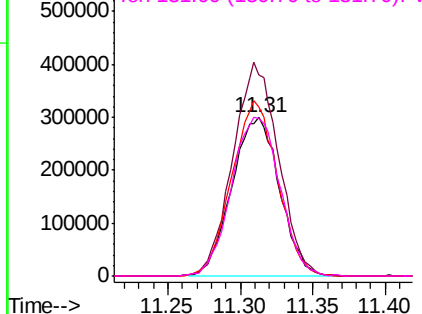
131 98.9 77.9 116.9

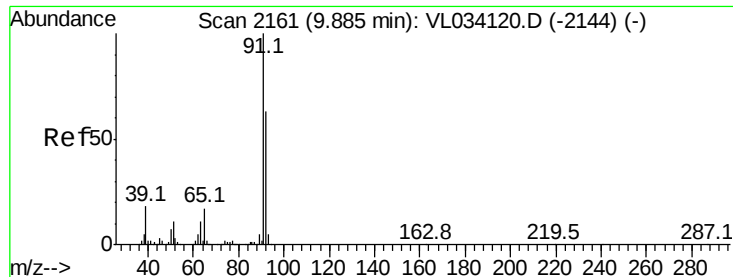
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 9.053 ppbv

RT: 9.89 min Scan# 2161

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA_L

ClientSampleId :

ICVVL090519

Tot Ion: 91 Resp: 2392128

Ion Ratio Lower Upper

91 100

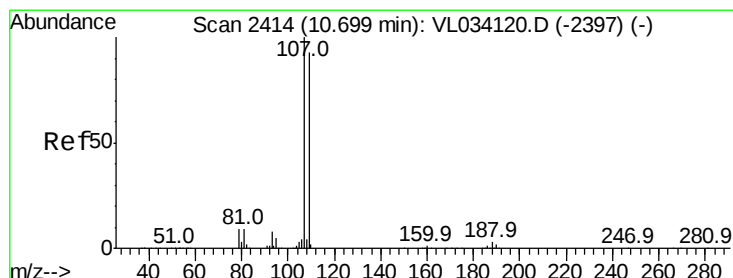
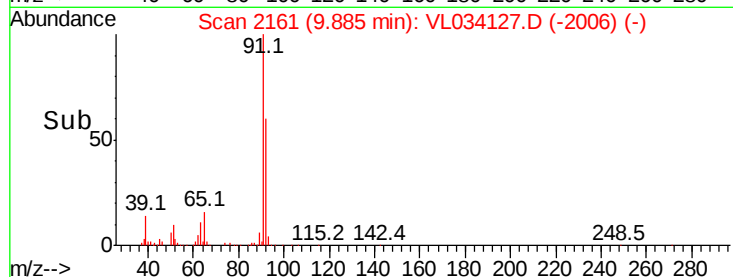
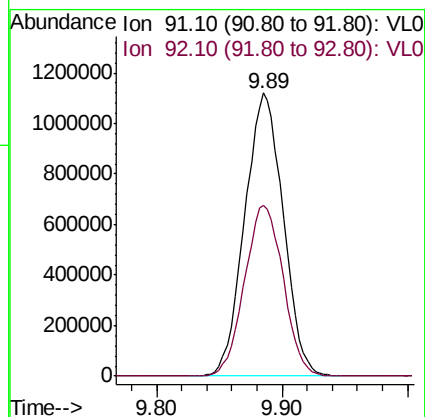
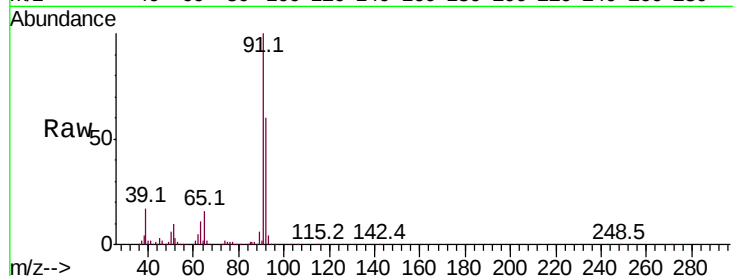
92 60.6 49.3 73.9

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 9.216 ppbv

RT: 10.70 min Scan# 2413

Delta R.T. -0.00 min

Lab File: VL034127.D

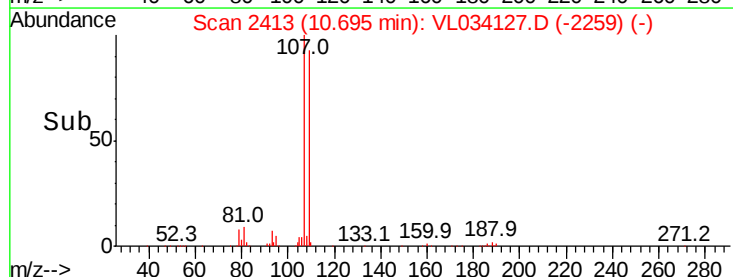
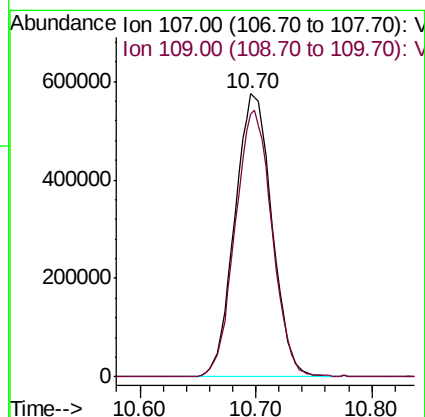
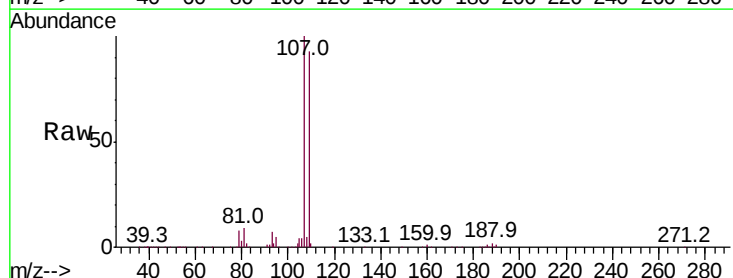
Acq: 5 Sep 2019 7:05

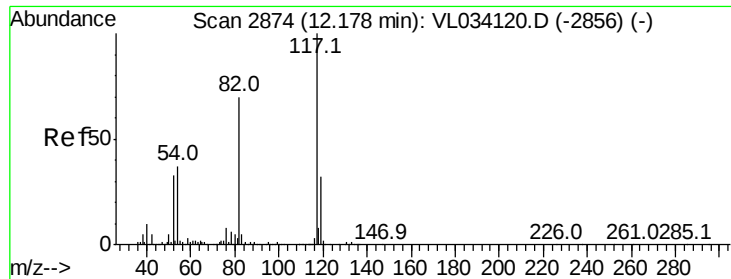
Tgt Ion: 107 Resp: 1278816

Ion Ratio Lower Upper

107 100

109 92.6 74.5 111.7





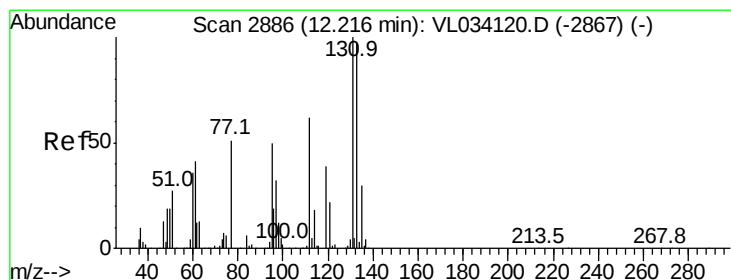
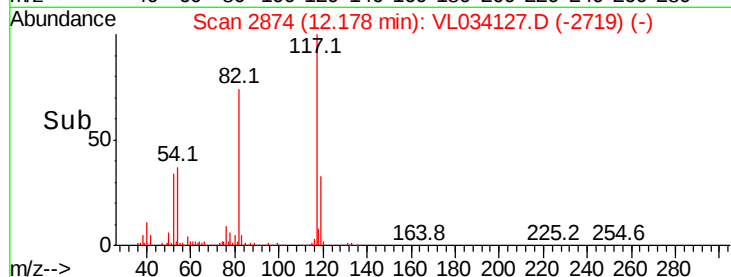
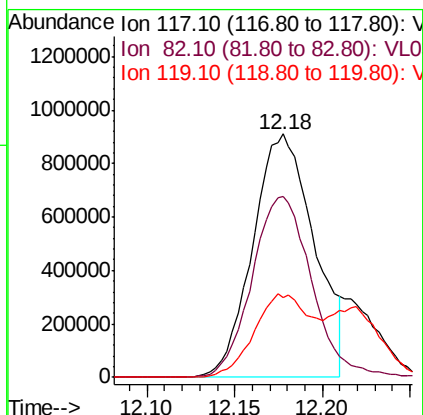
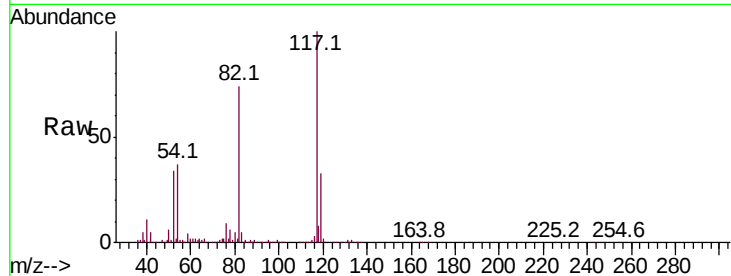
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.18 min Scan# 2874
Delta R.T. -0.00 min
Lab File: VL034127.D
Acq: 5 Sep 2019 7:05

Instrument :
MSVOA_L
ClientSampleId :
ICVVL090519

Tot Ion	Ratio	Lower	Upper
117	100		
82	72.5	55.8	83.6
119	30.6	43.1	64.7#

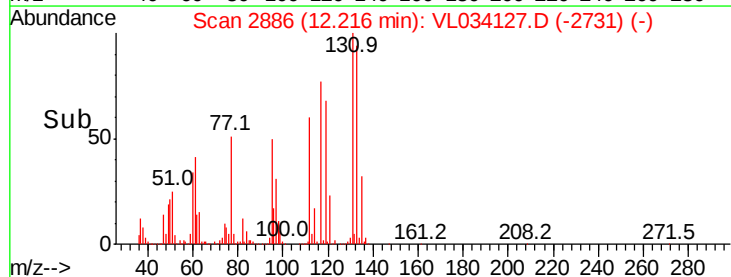
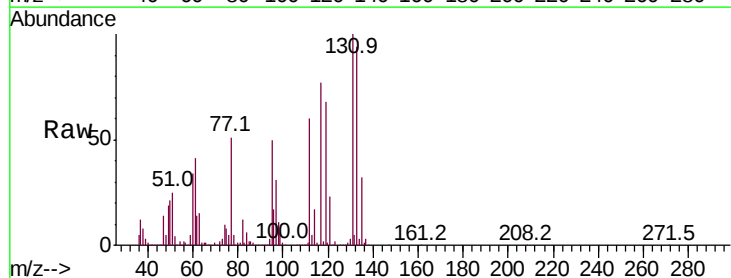
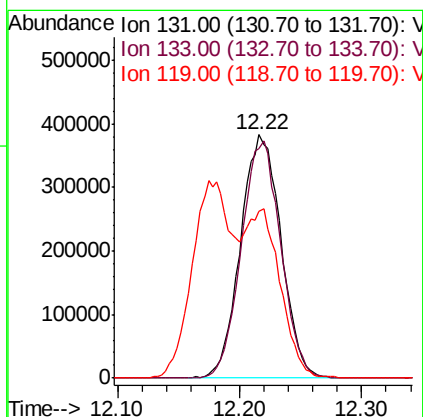
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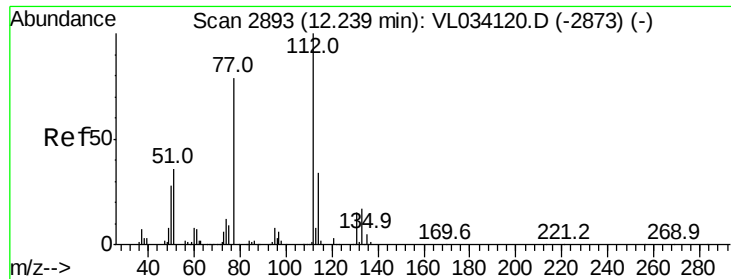
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.205 ppbv
RT: 12.22 min Scan# 2886
Delta R.T. -0.00 min
Lab File: VL034127.D
Acq: 5 Sep 2019 7:05

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.3	75.8	113.6
119	64.8	114.7	172.1#





#57

Chlorobenzene

Concen: 8.591 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA_L

ClientSampleId :

ICVVL090519

Tot Ion: 112 Resp: 1640849

Ion Ratio Lower Upper

112 100

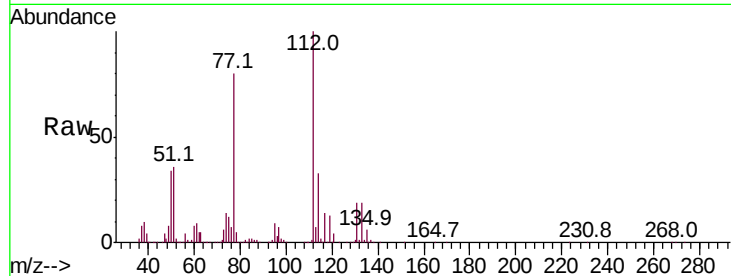
77 80.2 64.4 96.6

114 33.1 30.3 37.1

Manual Integrations
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V

1000000

800000

600000

400000

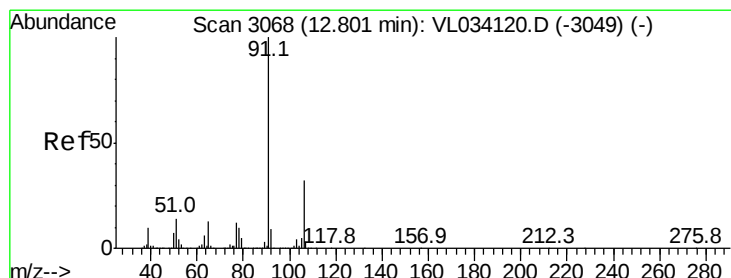
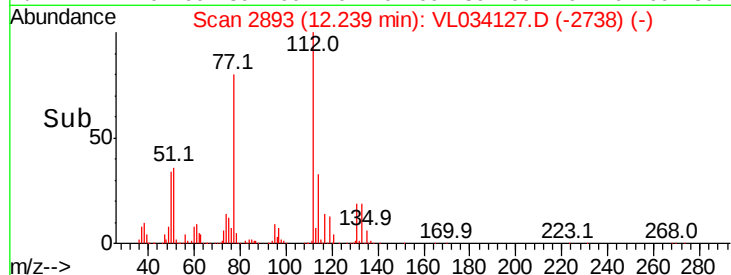
200000

0

12.24

12.20 12.30

Time-->



#58

Ethyl Benzene

Concen: 8.833 ppbv

RT: 12.80 min Scan# 3068

Delta R.T. -0.00 min

Lab File: VL034127.D

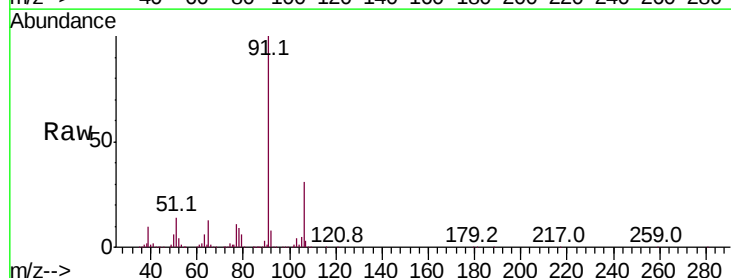
Acq: 5 Sep 2019 7:05

Tgt Ion: 91 Resp: 3215766

Ion Ratio Lower Upper

91 100

106 30.5 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

1500000

1000000

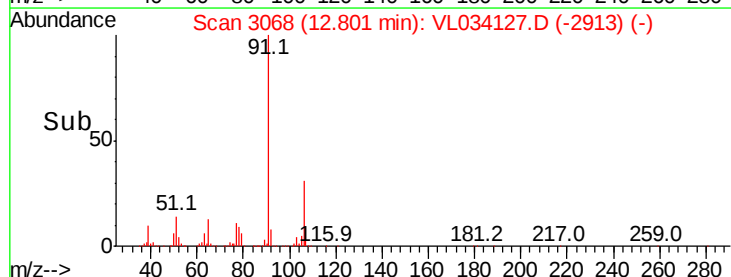
500000

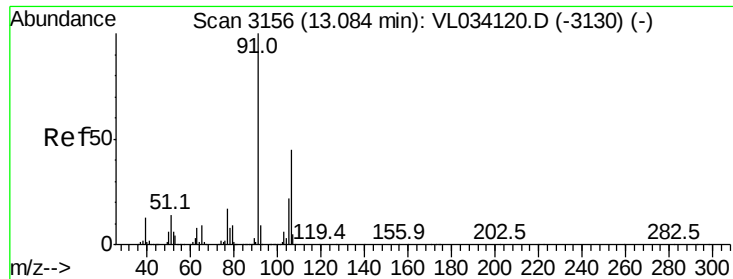
0

12.80

12.70 12.90

Time-->





#59

m/p-Xylene

Concen: 17.166 ppbv m

RT: 13.09 min Scan# 3157

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA_L

ClientSampleId :

ICVVL090519

Tot Ion: 91 Resp: 5098143

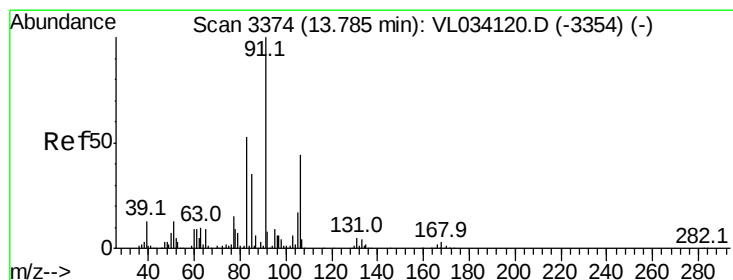
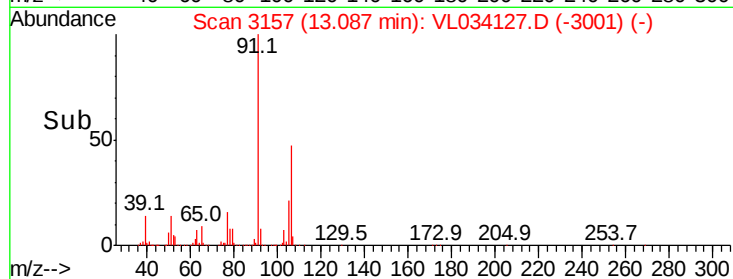
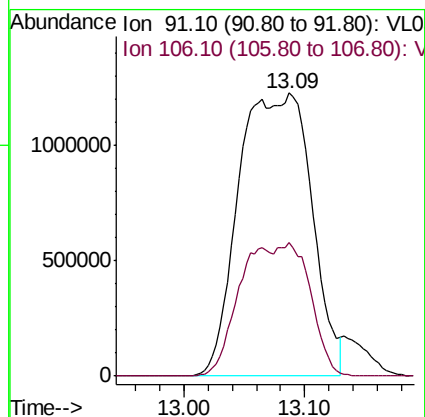
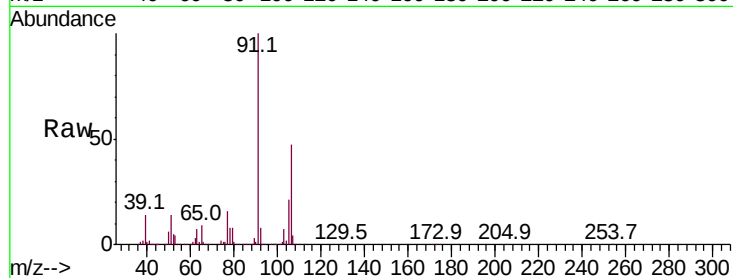
Ion Ratio Lower Upper

91 100

106 45.0 35.4 53.2

Manual Integrations
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#60

o-Xylene

Concen: 8.594 ppbv

RT: 13.79 min Scan# 3375

Delta R.T. 0.00 min

Lab File: VL034127.D

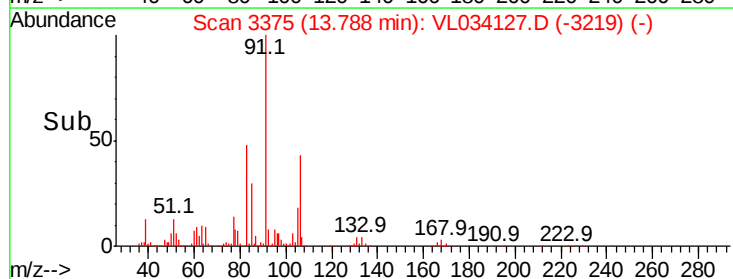
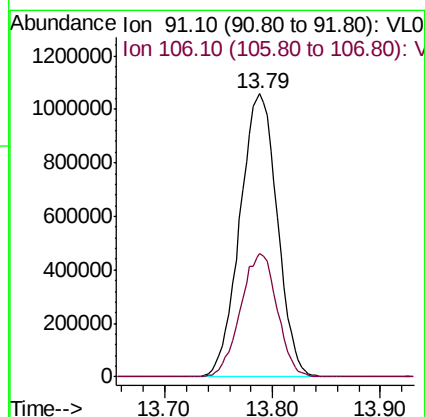
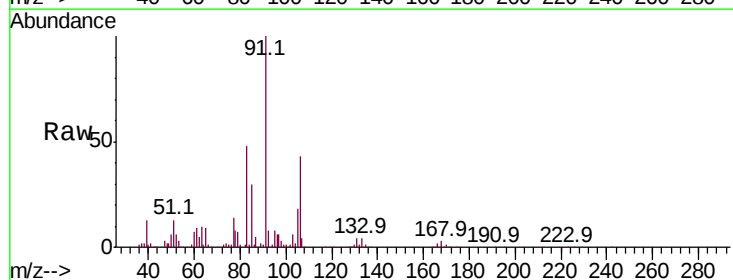
Acq: 5 Sep 2019 7:05

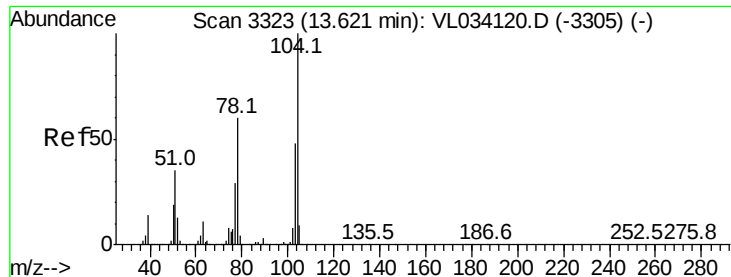
Tgt Ion: 91 Resp: 2542226

Ion Ratio Lower Upper

91 100

106 42.7 21.4 64.3





#61

Stvrene

Concen: 8.759 ppbv

RT: 13.62 min Scan# 3323

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA_L

ClientSampleId :

ICVVL090519

Tot Ion:104 Resp: 1937963

Ion Ratio Lower Upper

104 100

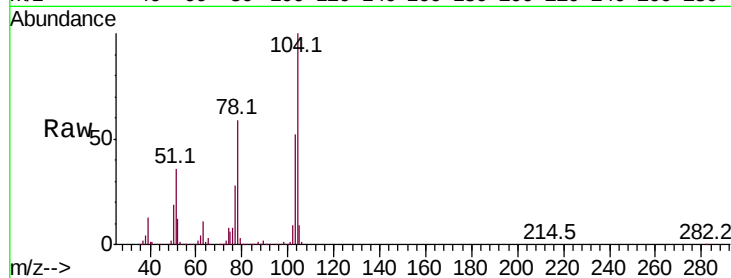
78 58.9 47.8 71.6

103 48.8 38.7 58.1

Manual Integrations
APPROVED

MMDadoda

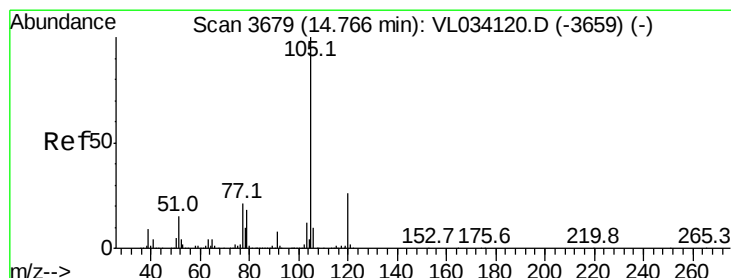
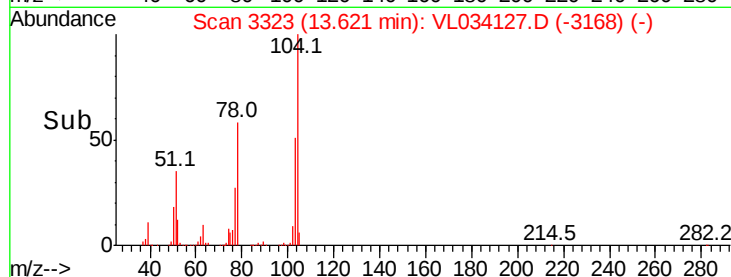
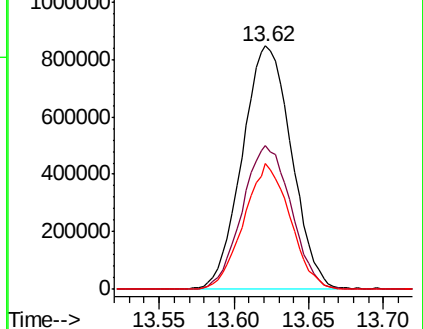
9/12/2019 5:15:03 AM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 8.665 ppbv

RT: 14.76 min Scan# 3678

Delta R.T. -0.00 min

Lab File: VL034127.D

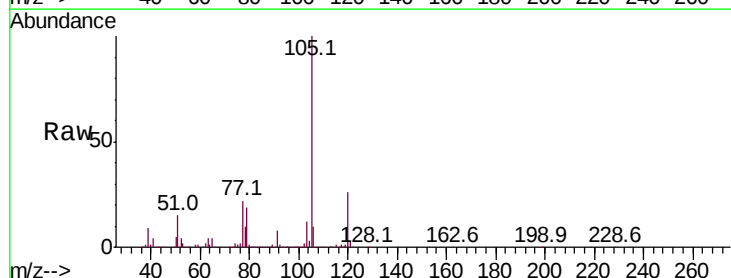
Acq: 5 Sep 2019 7:05

Tgt Ion:105 Resp: 3335027

Ion Ratio Lower Upper

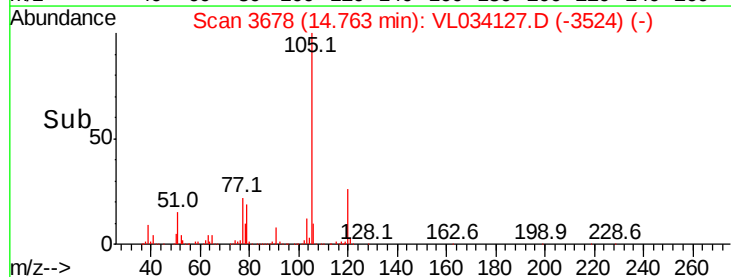
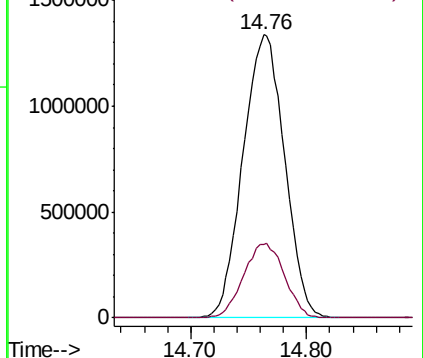
105 100

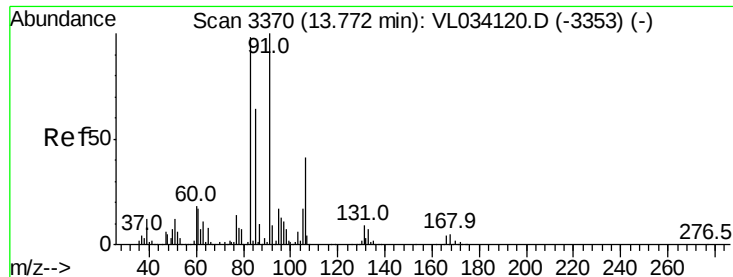
120 25.8 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 7.750 ppbv

RT: 13.77 min Scan# 3370

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA_L

ClientSampleId :

ICVVL090519

Tot Ion: 83 Resp: 1868090

Ion Ratio Lower Upper

83 100

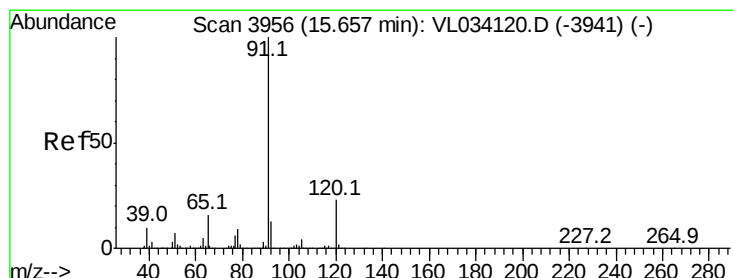
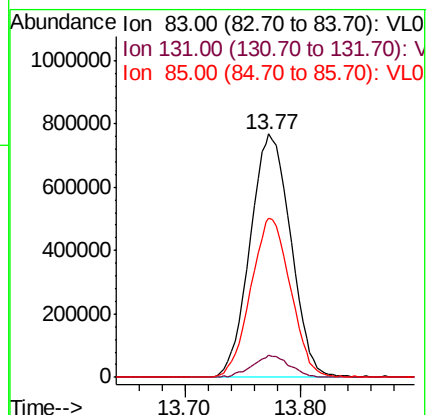
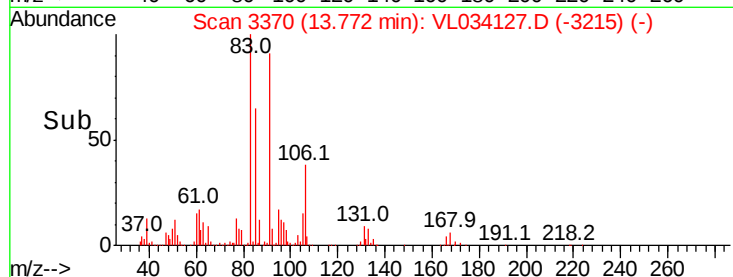
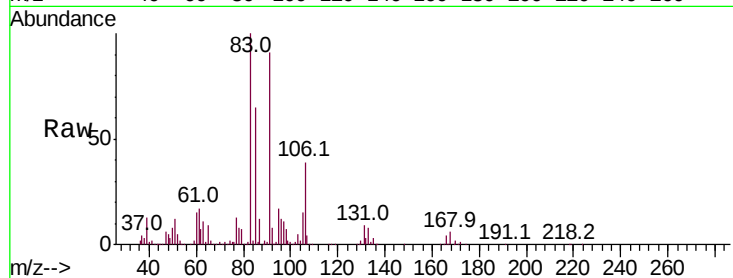
131 8.3 4.3 12.8

85 64.3 32.5 97.5

Manual Integrations
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9/12/2019 5:15:03 AM



#64

n-propylbenzene

Concen: 9.237 ppbv

RT: 15.66 min Scan# 3957

Delta R.T. 0.00 min

Lab File: VL034127.D

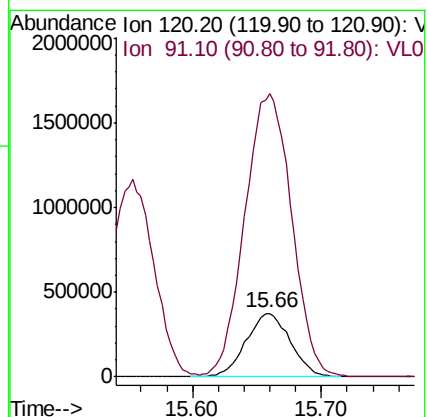
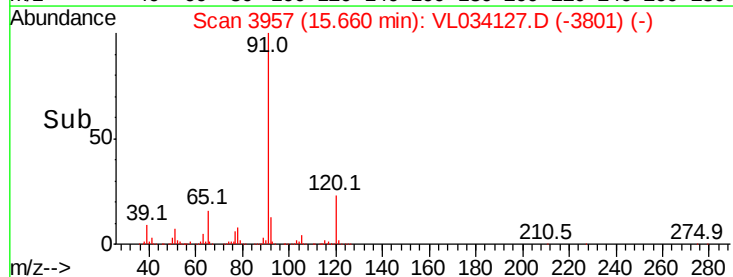
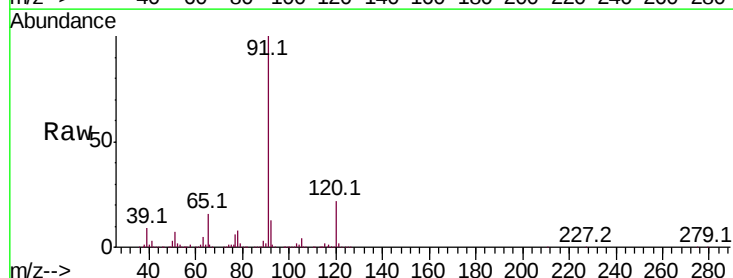
Acq: 5 Sep 2019 7:05

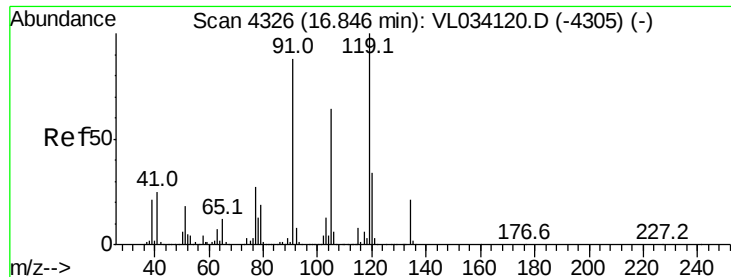
Tgt Ion: 120 Resp: 890541

Ion Ratio Lower Upper

120 100

91 475.3 376.8 565.2





#65

tert-Butylbenzene

Concen: 8.515 ppbv

RT: 16.85 min Scan# 4327

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA_L

ClientSampleId :

ICVVL090519

Tot Ion:119 Resp: 2828223

Ion Ratio Lower Upper

119 100

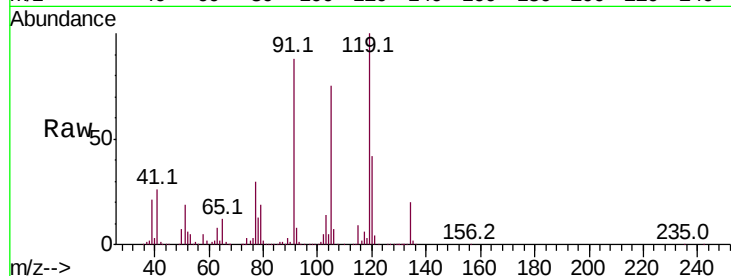
91 91.9 72.8 109.2

134 20.2 15.8 23.8

Manual Integrations
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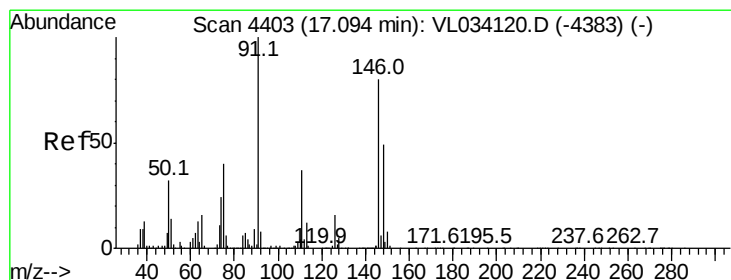
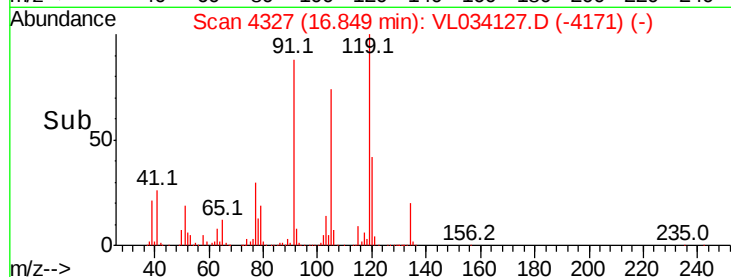
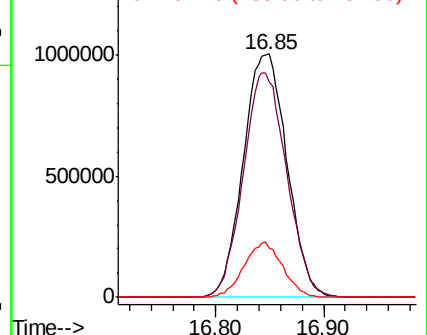
9/12/2019 5:15:03 AM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 9.875 ppbv

RT: 17.10 min Scan# 4404

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

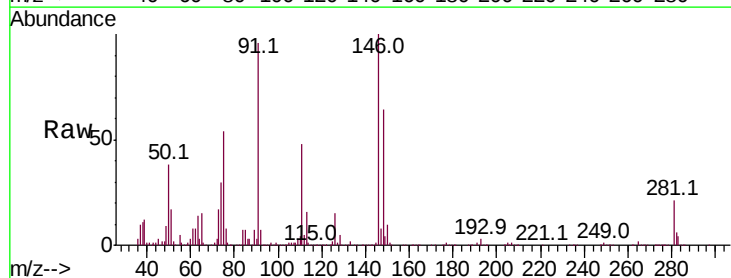
Tgt Ion: 91 Resp: 1209294

Ion Ratio Lower Upper

91 100

126 16.9 13.7 20.5

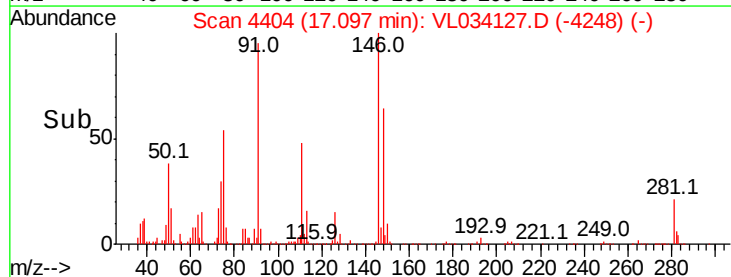
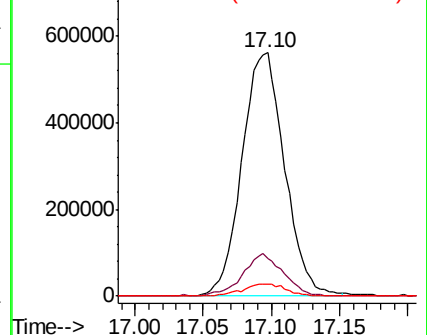
128 5.1 4.2 6.4

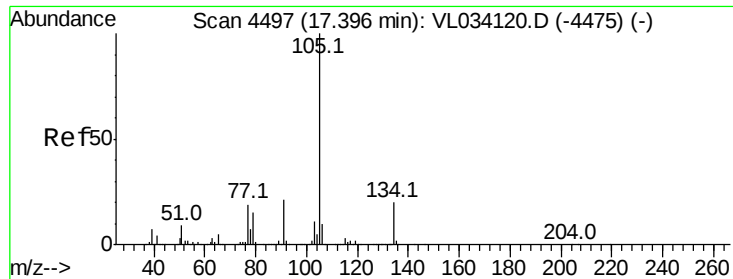


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.624 ppbv

RT: 17.40 min Scan# 4497

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA_L

ClientSampleId :

ICVVL090519

Tot Ion:105 Resp: 4118908

Ion Ratio Lower Upper

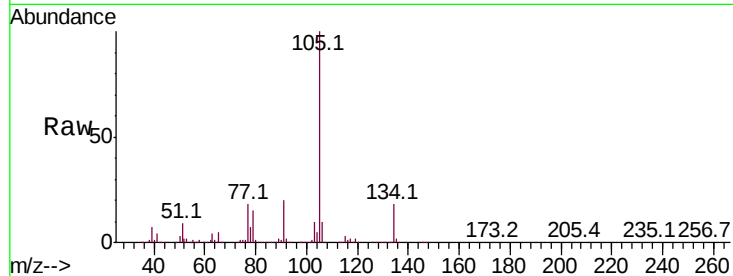
105 100

134 18.1 15.0 22.4

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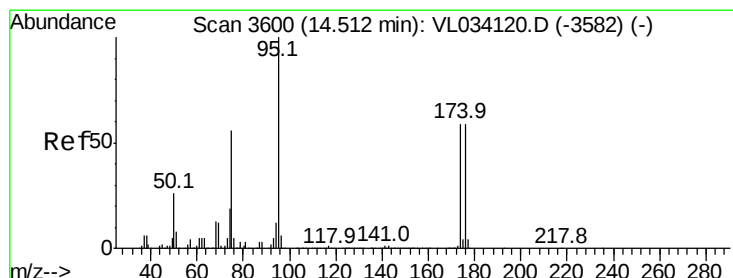
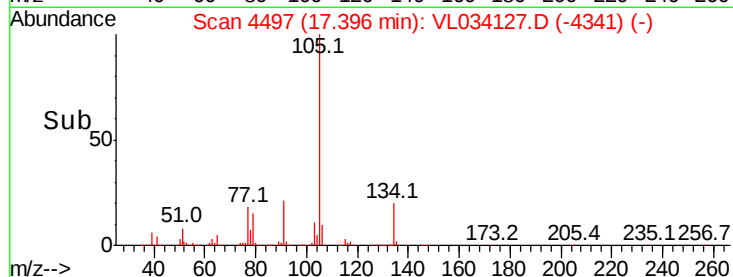
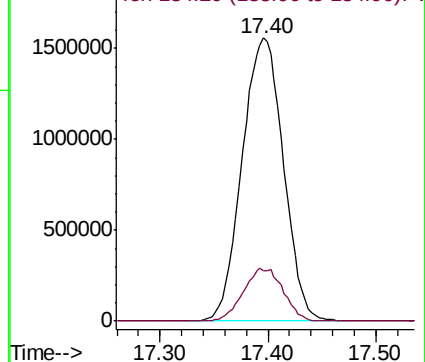
MMDadoda

9/12/2019 5:15:03 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.787 ppbv

RT: 14.51 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

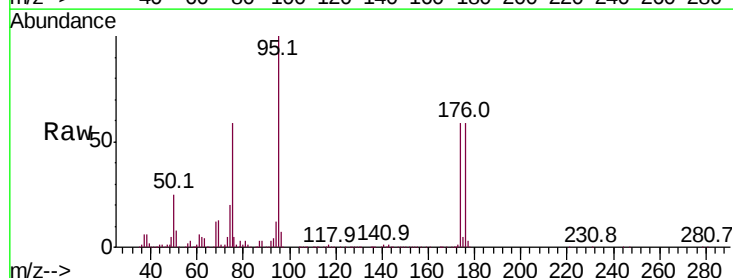
Tgt Ion: 95 Resp: 1776429

Ion Ratio Lower Upper

95 100

174 60.9 48.1 72.1

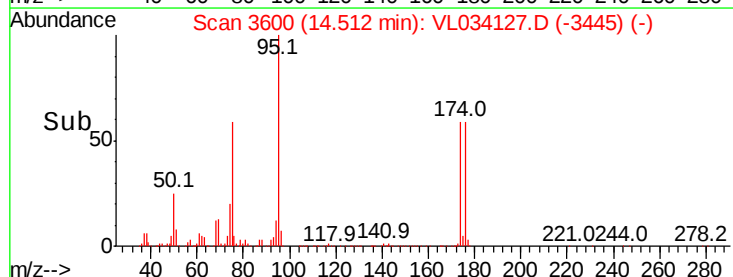
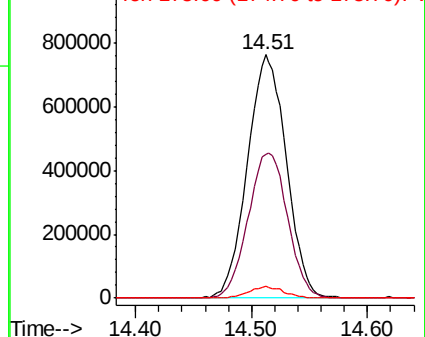
175 4.4 3.5 5.3

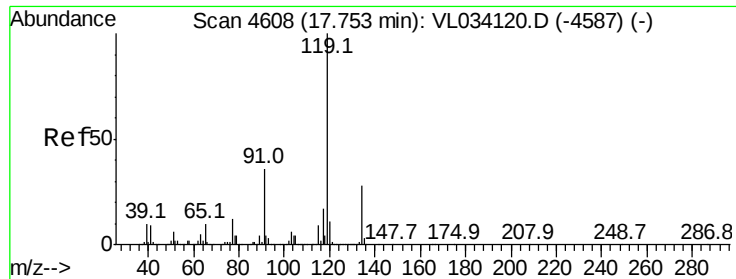


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





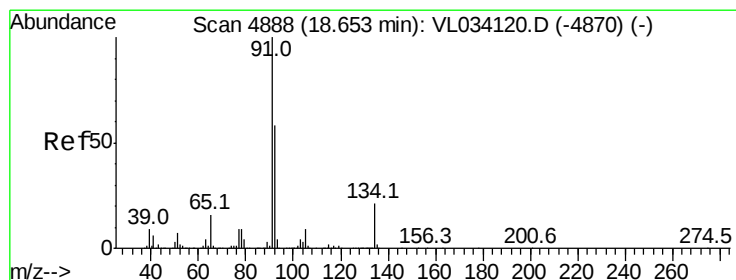
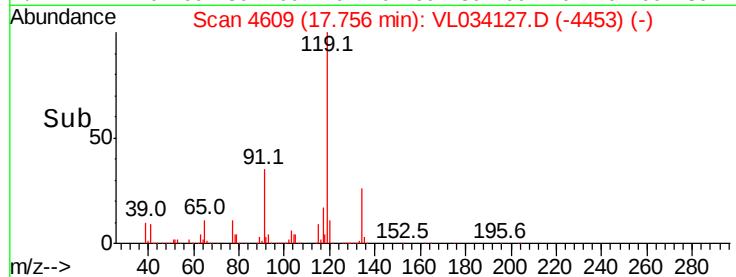
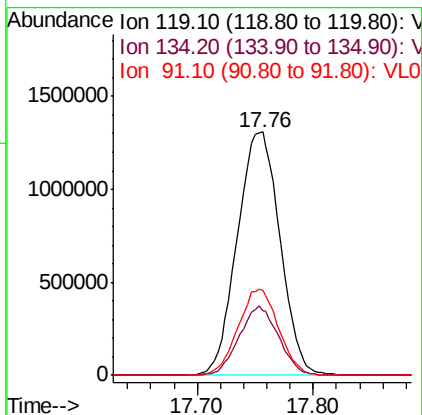
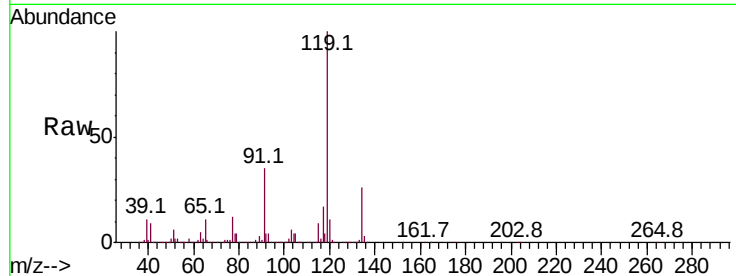
#69
 p-Isopropyltoluene
 Concen: 8.752 ppbv
 RT: 17.76 min Scan# 4609
 Delta R.T. 0.00 min
 Lab File: VL034127.D
 Acq: 5 Sep 2019 7:05

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL090519

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.3	20.8	31.2
91	33.9	27.2	40.8

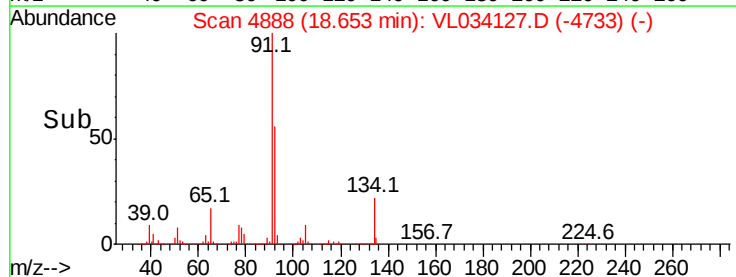
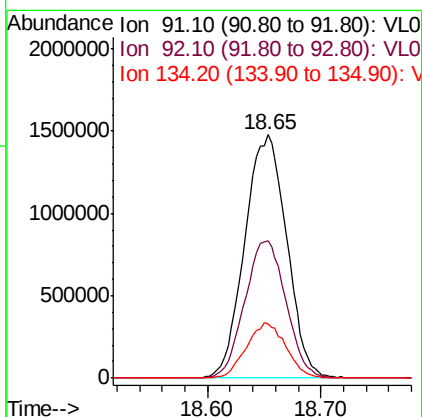
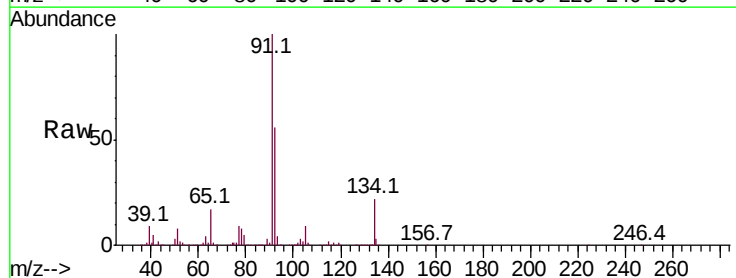
Manual Integrations
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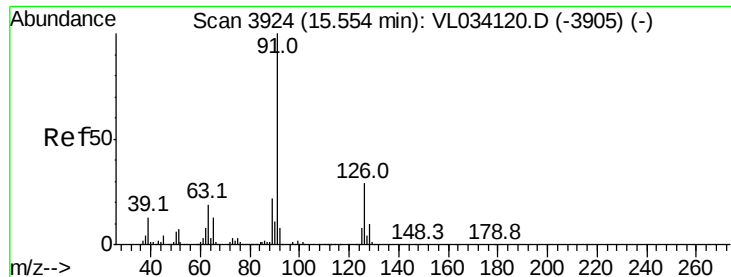
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 9/12/2019 5:15:03 AM



#70
 n-Butylbenzene
 Concen: 8.736 ppbv
 RT: 18.65 min Scan# 4888
 Delta R.T. -0.00 min
 Lab File: VL034127.D
 Acq: 5 Sep 2019 7:05

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.7	45.3	67.9
134	21.5	17.4	26.0





#71

2-Chlorotoluene

Concen: 8.845 ppbv

RT: 15.55 min Scan# 3924

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA_L

ClientSampleId :

ICVVL090519

Tot Ion: 91 Resp: 2780724

Ion Ratio Lower Upper

91 100

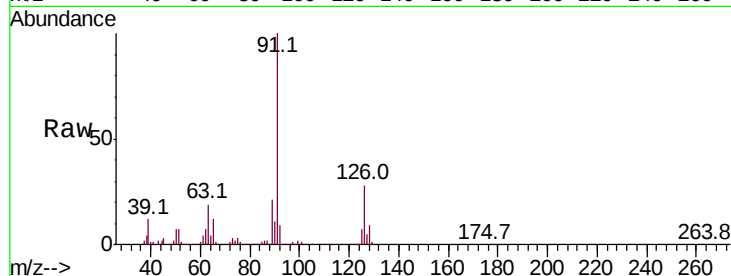
126 28.8 11.4 45.4

Manual Integrations

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

2000000

1500000

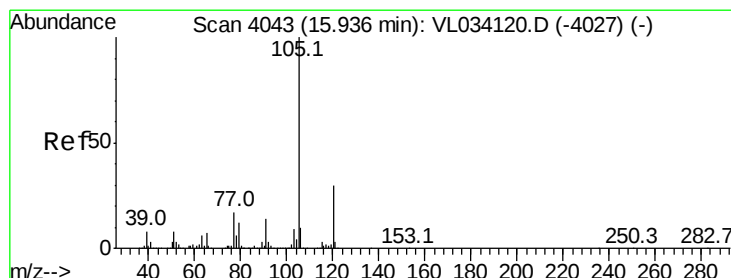
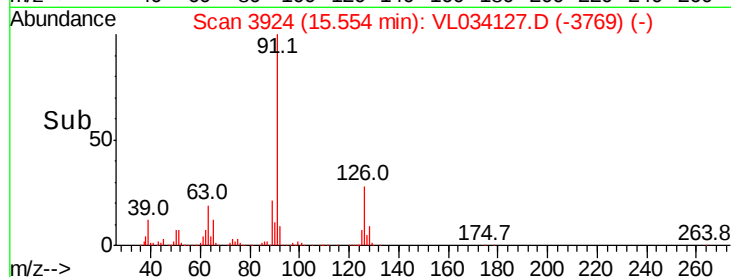
1000000

500000

0

15.45 15.50 15.55 15.60

Time-->



#72

4-Ethyltoluene

Concen: 8.866 ppbv

RT: 15.94 min Scan# 4044

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Tgt Ion:105 Resp: 2958988

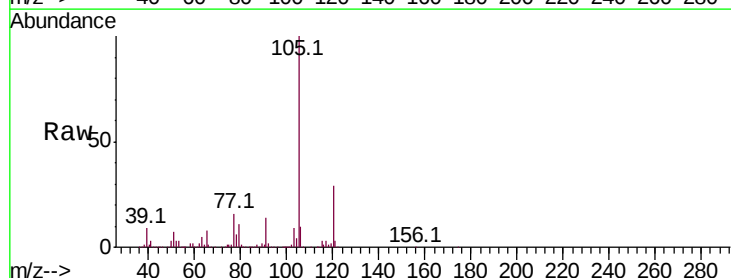
Ion Ratio Lower Upper

105 100

120 29.3 23.8 35.6

91 13.8 11.4 17.0

77 15.6 12.6 18.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

1500000

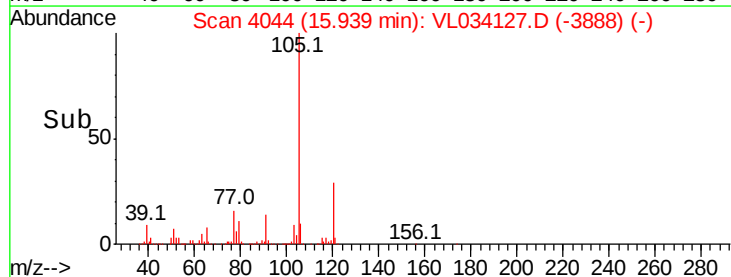
1000000

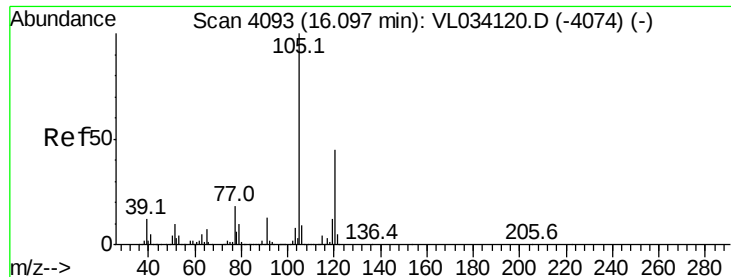
500000

0

15.90 15.94 15.98

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 8.796 ppbv

RT: 16.09 min Scan# 4092

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA_L

ClientSampled :

ICVVL090519

Tot Ion:105 Resp: 2853139

Ion Ratio Lower Upper

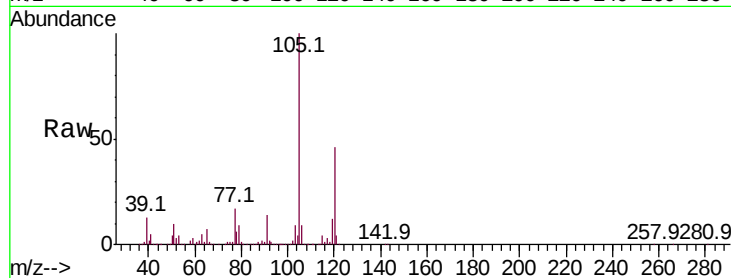
105 100

120 46.0 35.8 53.8

Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

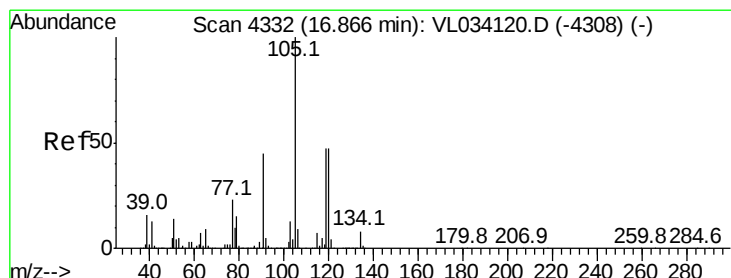
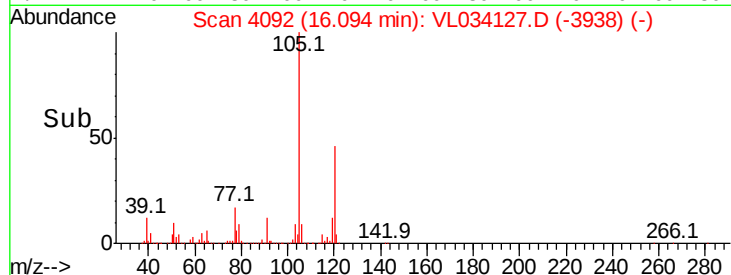
16.09

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 8.320 ppbv

RT: 16.87 min Scan# 4333

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Tgt Ion:105 Resp: 2778842

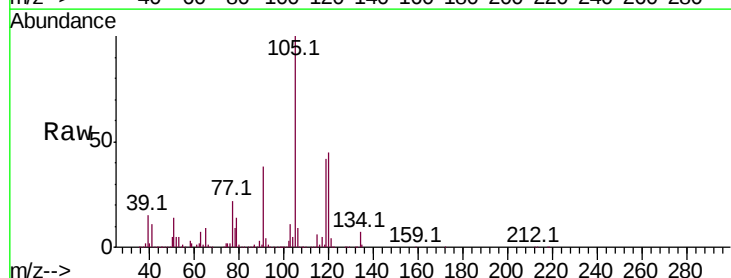
Ion Ratio Lower Upper

105 100

120 44.6 37.7 56.5

91 37.4 36.2 54.2

77 22.1 18.5 27.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

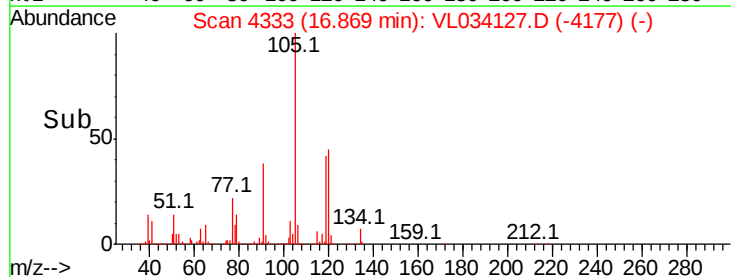
1500000

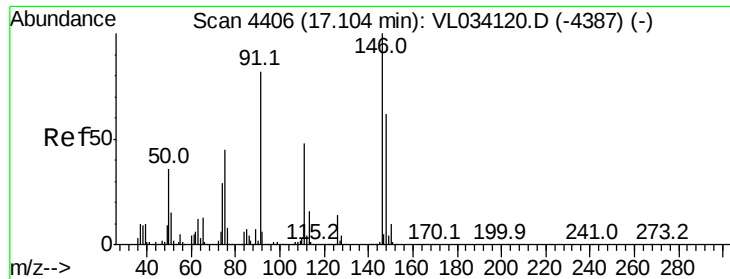
1000000

500000

0

Time-->





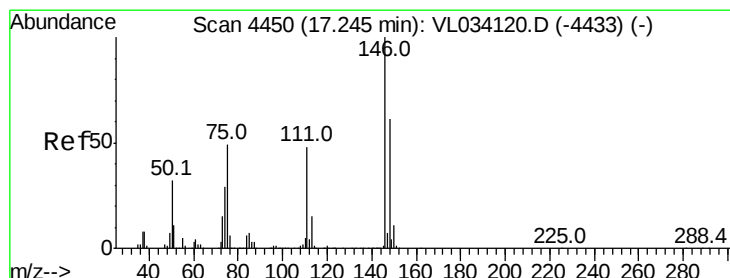
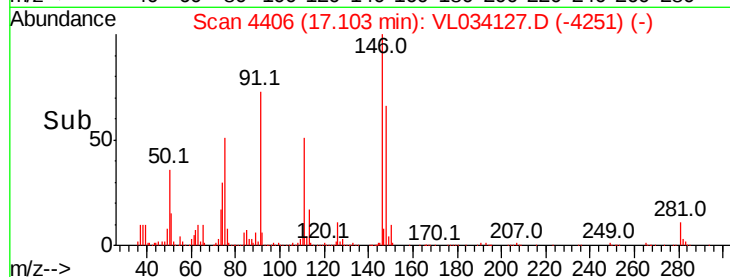
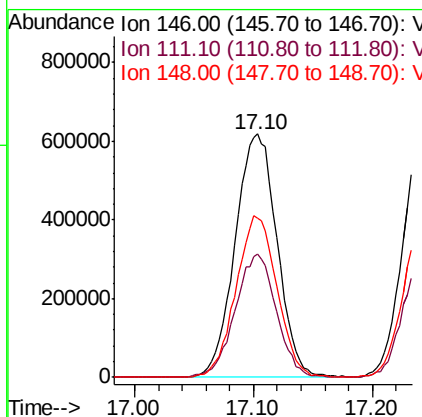
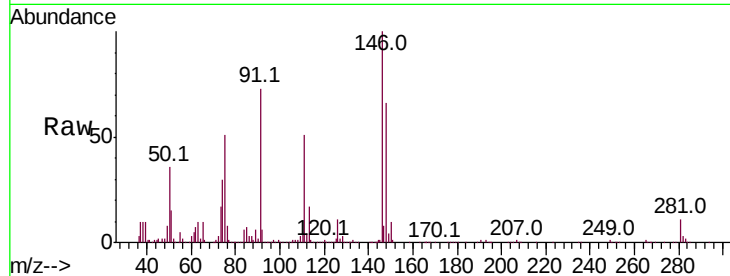
#75
 1,3-Dichlorobenzene
 Concen: 8.447 ppbv
 RT: 17.10 min Scan# 4406
 Delta R.T. -0.00 min
 Lab File: VL034127.D
 Acq: 5 Sep 2019 7:05

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL090519

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.3	24.9	74.7
148	65.8	32.5	97.5

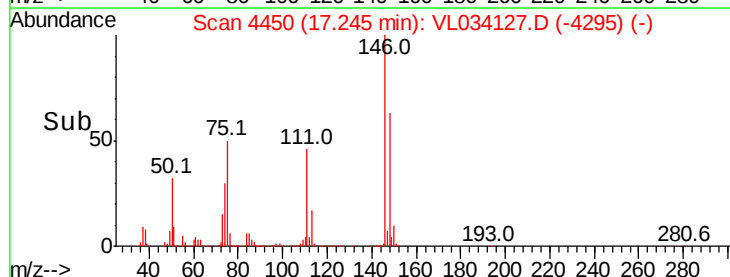
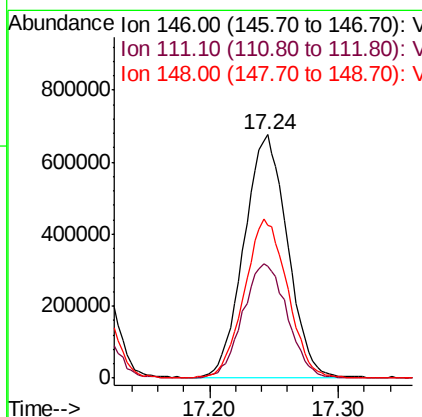
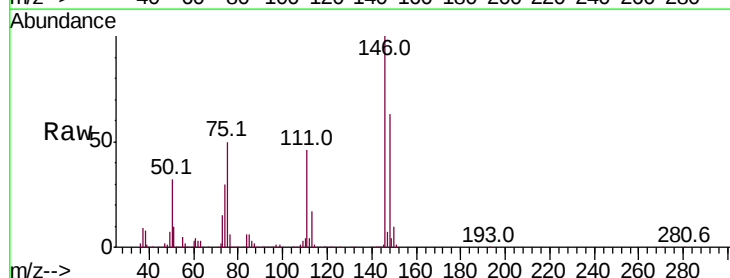
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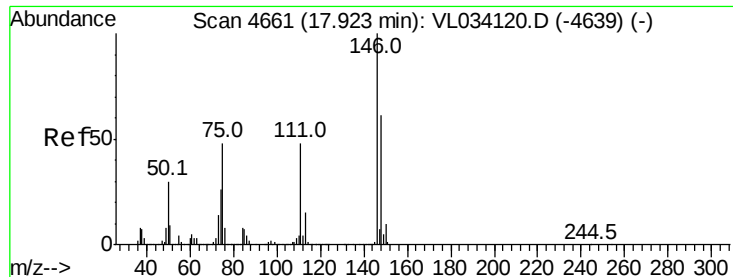
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 9/12/2019 5:15:03 AM



#76
 1,4-Dichlorobenzene
 Concen: 8.524 ppbv
 RT: 17.24 min Scan# 4450
 Delta R.T. -0.00 min
 Lab File: VL034127.D
 Acq: 5 Sep 2019 7:05

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.3	24.3	72.8
148	65.5	32.6	98.0





#77

1,2-Dichlorobenzene

Concen: 8.616 ppbv

RT: 17.92 min Scan# 4661

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA_L

ClientSampleId :

ICVVL090519

Tot Ion:146 Resp: 1561001

Ion Ratio Lower Upper

146 100

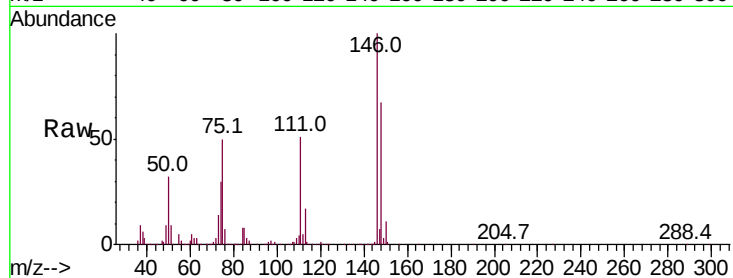
111 50.1 25.1 75.4

148 64.7 32.0 96.2

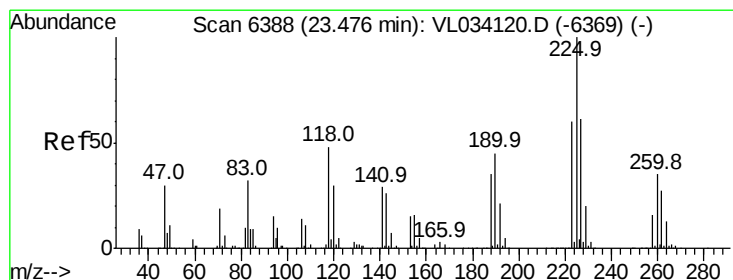
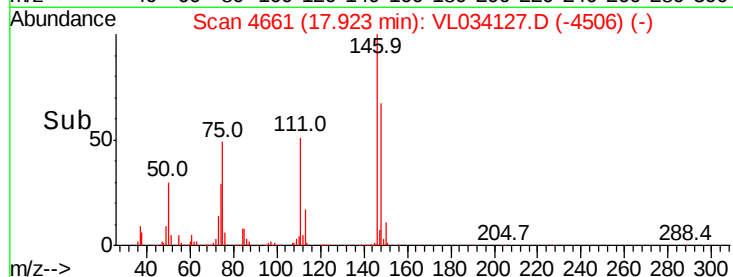
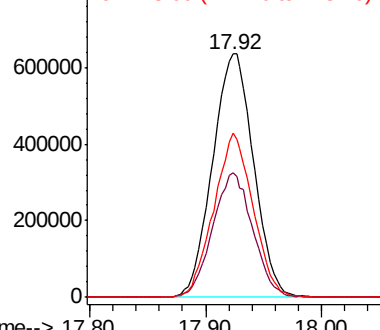
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 8.179 ppbv

RT: 23.48 min Scan# 6389

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

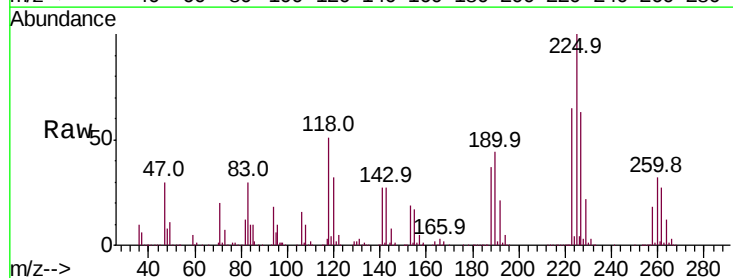
Tgt Ion:225 Resp: 1010981

Ion Ratio Lower Upper

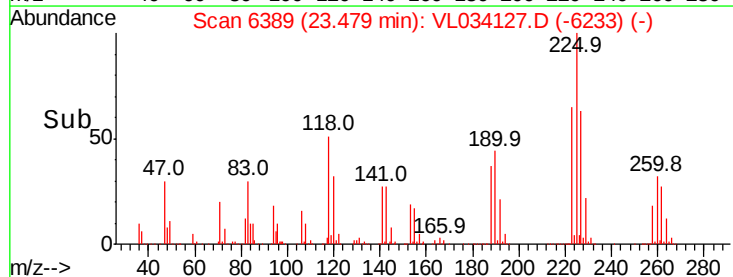
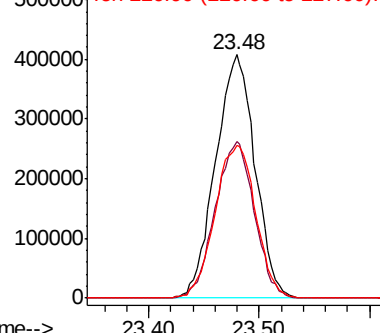
225 100

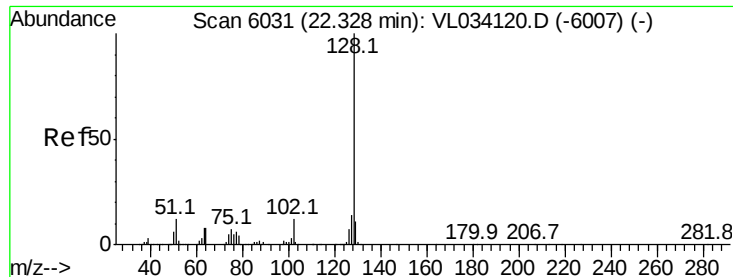
223 63.9 50.3 75.5

227 65.0 50.9 76.3



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V





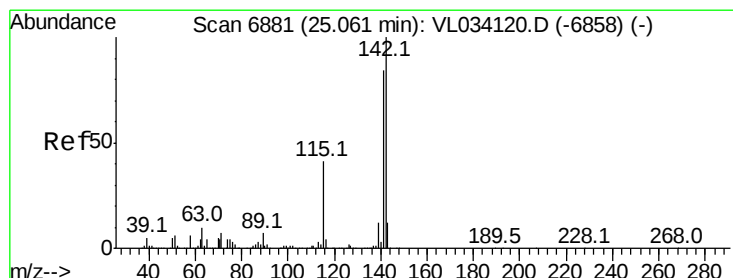
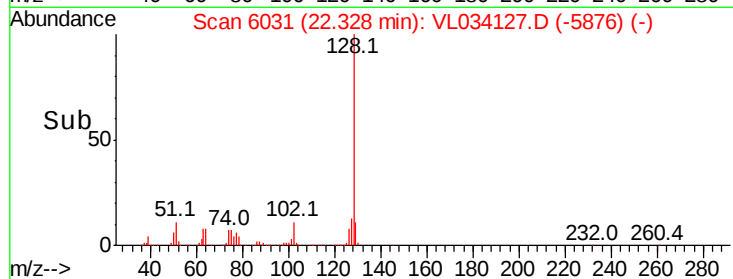
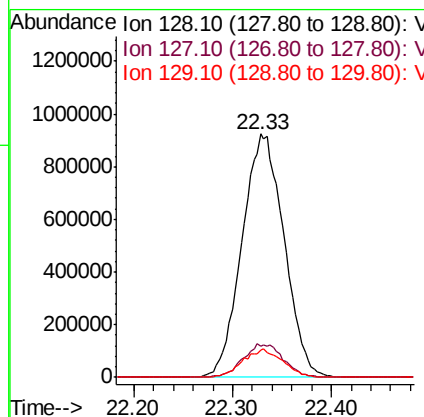
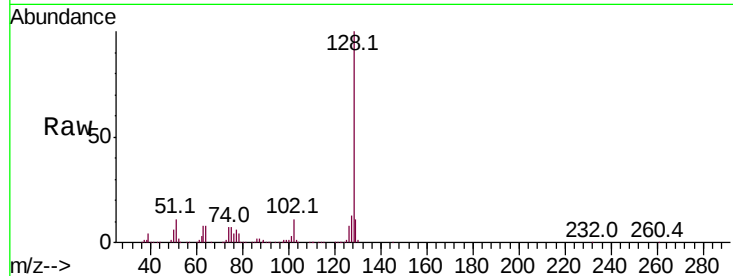
#79
Naphthalene
Concen: 9.005 ppbv
RT: 22.33 min Scan# 6031
Delta R.T. -0.00 min
Lab File: VL034127.D
Acq: 5 Sep 2019 7:05

Instrument :
MSVOA_L
ClientSampleId :
ICVVL090519

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.9	16.3
129	11.4	8.5	12.7

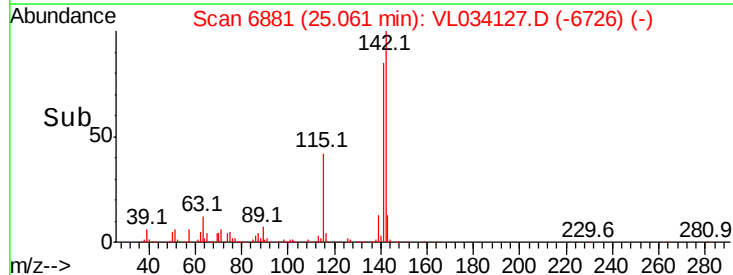
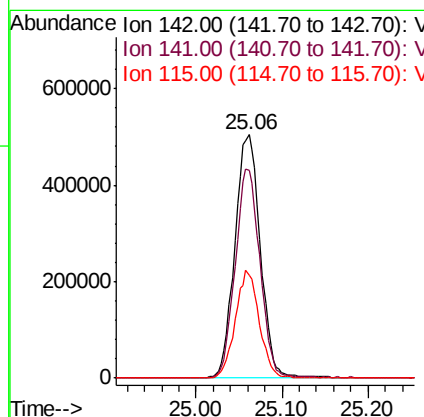
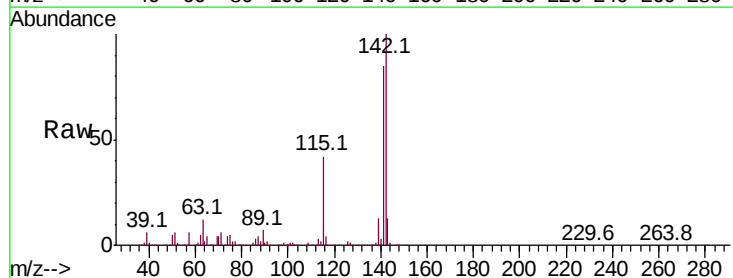
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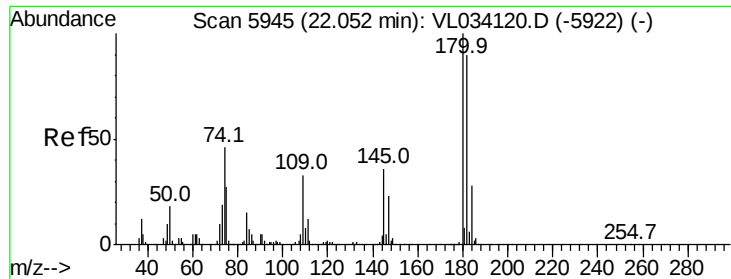
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#80
Naphthalene, 2-methyl-
Concen: 9.884 ppbv
RT: 25.06 min Scan# 6881
Delta R.T. -0.00 min
Lab File: VL034127.D
Acq: 5 Sep 2019 7:05

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.0	67.6	101.4
115	41.8	34.6	52.0





#81
 1,2,4-Trichlorobenzene
 Concen: 8.366 ppbv
 RT: 22.05 min Scan# 5946
 Delta R.T. 0.00 min
 Lab File: VL034127.D
 Acq: 5 Sep 2019 7:05

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL090519

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.5	77.0	115.4
184	30.6	25.5	38.3

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