

Data File : VL034541.D

Acq On : 31 Dec 2019 10:20

Operator : SY/AP

Sample : VSTDCCC010

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Quant Time: Dec 31 11:18:36 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL123019AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 30 14:58:50 2019

QLast Update : Mon Dec 30 14:58:50 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1004936	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2036055	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2152854	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.48	95	1718287	9.56	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.60%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.02	85	1434335	9.050	ppbv	97
3) Chlorodifluoromethane	2.96	51	1084573	9.058	ppbv	100
4) Chloromethane	3.11	50	666567	9.372	ppbv	99
5) Vinyl Chloride	3.23	62	617399	8.865	ppbv	99
6) Bromomethane	3.45	94	334287	9.643	ppbv	98
7) Chloroethane	3.53	64	235441	9.701	ppbv	97
8) Dichlorotetrafluoroethane	3.16	85	1471163	9.255	ppbv	100
9) Propene	2.98	41	461500	9.997	ppbv	100
10) Heptane	8.15	43	1207088	10.126	ppbv	99
11) Trichlorofluoromethane	3.93	101	1680499	9.163	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1138776	9.762	ppbv	97
13) Ethanol	3.58	45	105029	8.200	ppbv	98
14) Bromoethene	3.72	108	457610	9.699	ppbv	99
15) Acetone	3.83	43	1225015	8.353	ppbv	100
16) 1,3-Butadiene	3.30	39	570473	10.114	ppbv	100
17) tert-Butyl alcohol	4.28	59	1163702	9.909	ppbv	99
18) 1,1-Dichloroethene	4.28	96	496540	9.772	ppbv	92
19) Isopropyl Alcohol	3.95	45	906299	9.546	ppbv	100
20) Methylene Chloride	4.33	84	446881	7.744	ppbv	98
21) Allyl Chloride	4.40	41	850236	10.086	ppbv	99
22) trans-1,2-Dichloroethene	4.88	96	514156	9.948	ppbv	98
23) Vinyl Acetate	5.07	43	1721799	10.169	ppbv	99
24) 1,1-Dichloroethane	5.01	63	1286559	9.458	ppbv	98
25) Ethyl Acetate	5.68	43	2206591	9.634	ppbv	100
26) Hexane	5.69	57	923244	9.566	ppbv	98
27) Carbon Disulfide	4.54	76	1270310	10.413	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	1668858	10.353	ppbv	100
29) Chloroform	5.76	83	1553867	9.305	ppbv	99
30) Cyclohexane	7.15	84	740181	10.318	ppbv	99
31) cis-1,2-Dichloroethene	5.56	61	1024513	10.417	ppbv	95
32) 1,1,1-Trichloroethane	6.53	97	1589911	9.172	ppbv	99
34) 2-Butanone	5.25	43	1422540	9.777	ppbv	99
35) Carbon Tetrachloride	7.04	117	1702307	9.219	ppbv	98
36) Benzene	6.92	78	1764447	9.942	ppbv	98
37) 1,2-Dichloroethane	6.32	62	1356293	9.410	ppbv	99
38) Trichloroethene	7.87	130	723353	10.089	ppbv	98
39) 1,2-Dichloropropane	7.64	63	728784	9.986	ppbv	99
40) 1,4-Dioxane	7.86	88	287858	9.746	ppbv #	96
41) Tetrahydrofuran	6.06	42	783119	10.492	ppbv	98
42) Bromodichloromethane	7.82	83	1695436	9.560	ppbv	98
43) Methyl Methacrylate	8.04	69	758269	10.474	ppbv	99

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Quant Time: Dec 31 11:18:36 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL123019AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 30 14:58:50 2019
QLast Update : Mon Dec 30 14:58:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	3174656	9.669	ppbv	100
45) t-1,3-Dichloropropene	9.32	75	1057107	11.335	ppbv	94
46) cis-1,3-Dichloropropene	8.74	75	1162513	10.905	ppbv	100
47) 1,1,2-Trichloroethane	9.52	97	745579	9.268	ppbv	99
48) Dibromochloromethane	10.35	129	1400395	10.041	ppbv	99
49) Bromoform	13.10	173	1201345	9.515	ppbv	100
50) 4-Methyl-2-Pentanone	8.77	43	2073296	9.816	ppbv	99
51) 2-Hexanone	10.17	43	1718951	10.082	ppbv	100
53) Toluene	9.85	91	2023492	10.377	ppbv	99
54) 1,2-Dibromoethane	10.66	107	1125441	9.613	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.18	131	919700	8.849	ppbv	96
57) Chlorobenzene	12.20	112	1560412	8.785	ppbv	99
58) Ethyl Benzene	12.76	91	2776302	9.562	ppbv	98
59) m/p-Xylene	13.05	91	1780630	7.013	ppbv #	32
60) o-Xylene	13.75	91	2309734	9.066	ppbv	99
61) Styrene	13.58	104	1671989	9.599	ppbv	99
62) Isopropylbenzene	14.73	105	2997788	8.995	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.74	83	1599265	7.825	ppbv	99
64) n-propylbenzene	15.62	120	776299	9.123	ppbv	98
65) tert-Butylbenzene	16.81	119	2748166	9.128	ppbv	100
66) Benzyl Chloride	17.05	91	1301053	9.860	ppbv	100
67) sec-Butylbenzene	17.36	105	3790917	8.966	ppbv	99
69) p-Isopropyltoluene	17.72	119	3227159	9.411	ppbv	100
70) n-Butylbenzene	18.62	91	3475108	9.392	ppbv	99
71) 2-Chlorotoluene	15.52	91	2348664	9.076	ppbv	100
72) 4-Ethyltoluene	15.90	105	2636214	9.247	ppbv	99
73) 1,3,5-Trimethylbenzene	16.06	105	2558353	9.147	ppbv	95
74) 1,2,4-Trimethylbenzene	16.83	105	2710205	9.058	ppbv	93
75) 1,3-Dichlorobenzene	17.06	146	1566783	8.743	ppbv	98
76) 1,4-Dichlorobenzene	17.21	146	1555074	9.013	ppbv	99
77) 1,2-Dichlorobenzene	17.88	146	819779	4.868	ppbv #	22
78) Hexachloro-1,3-Butadiene	23.45	225	1537608	9.618	ppbv	99
79) Naphthalene	22.29	128	2780413	12.338	ppbv	98
80) Naphthalene,2-methyl-	25.04	142	931154	14.915	ppbv #	93
81) 1,2,4-Trichlorobenzene	22.02	180	1651081	11.252	ppbv	99

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

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ClientSampleId :
VSTDCCC010EC

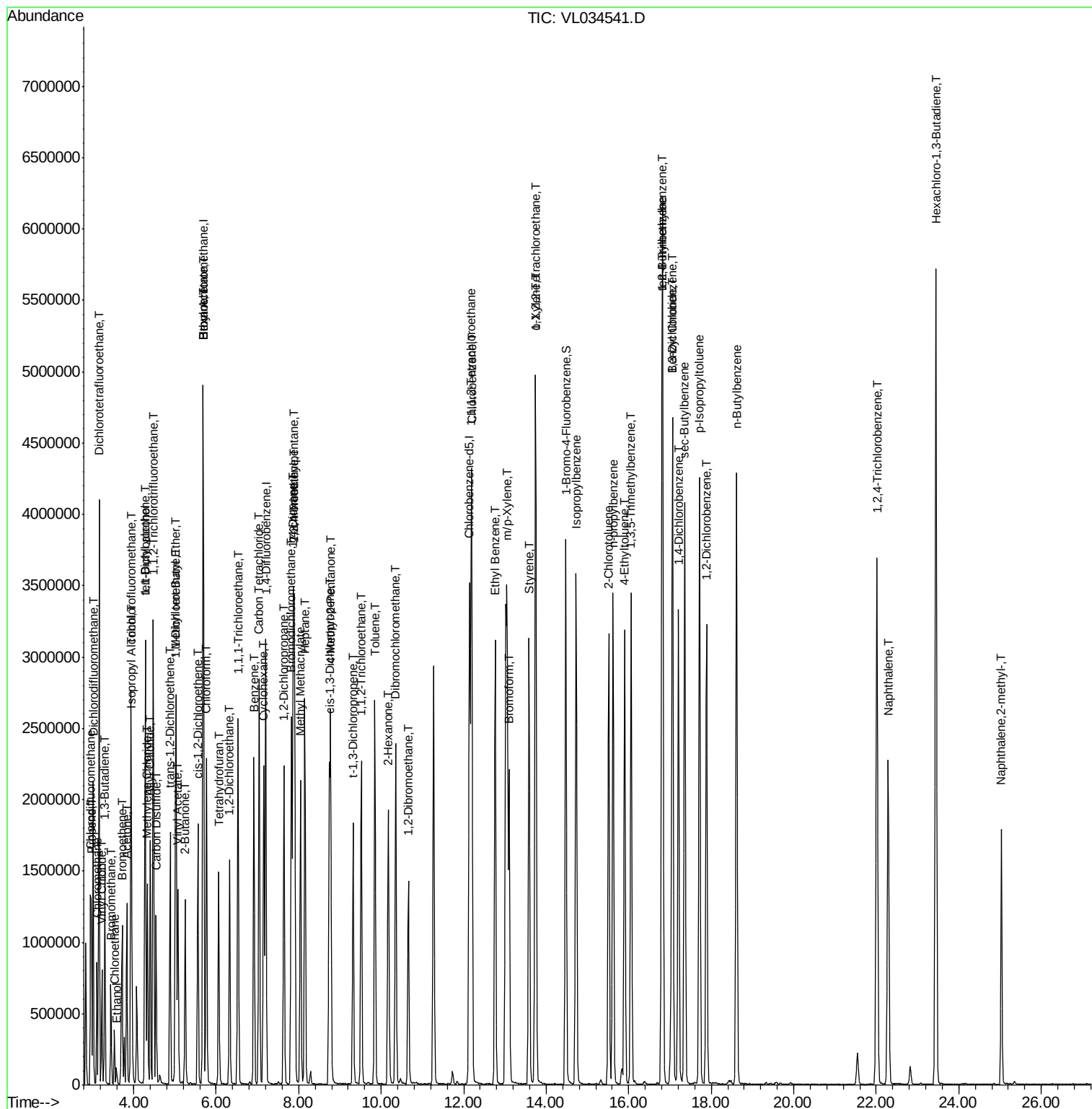
Quant Time: Dec 31 11:18:36 2019

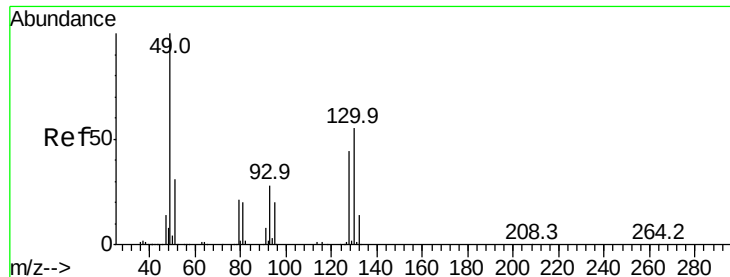
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL123019AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Mon Dec 30 14:58:50 2019

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

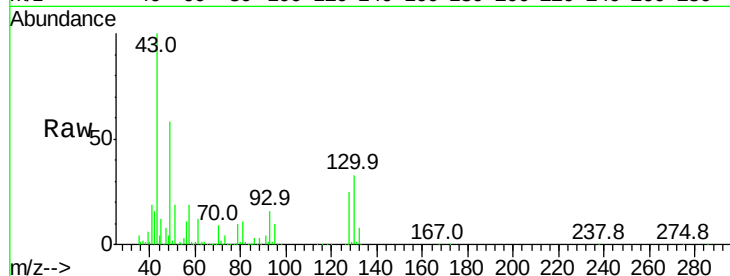
MSVOA_L

ClientSampleId :

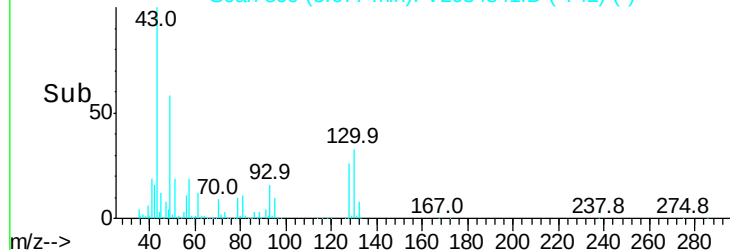
VSTDCCC010EC

Tgt Ion: 49 Resp: 1004936

Ion	Ratio	Lower	Upper
49	100		
128	44.1	22.4	67.2
130	55.9	28.3	85.0



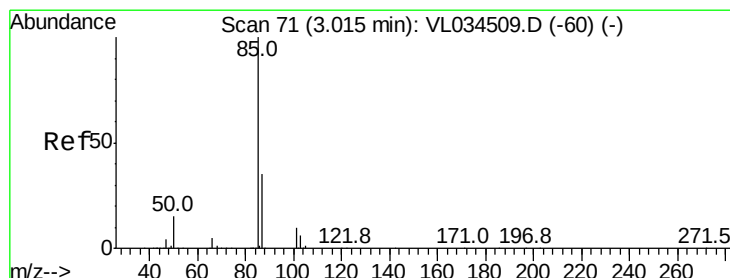
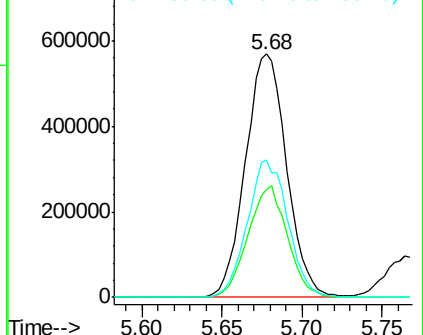
Scan 899 (5.677 min): VL034541.D (-742) (-)



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: 9.050 ppbv

RT: 3.02 min Scan# 72

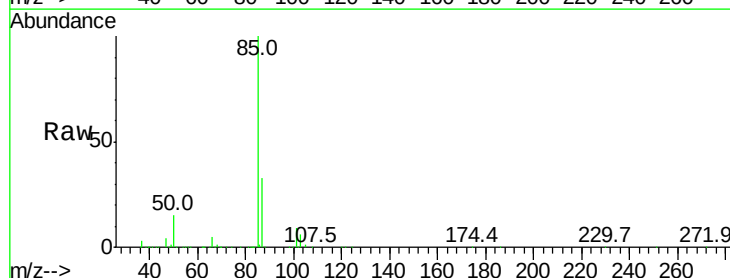
Delta R.T. 0.00 min

Lab File: VL034541.D

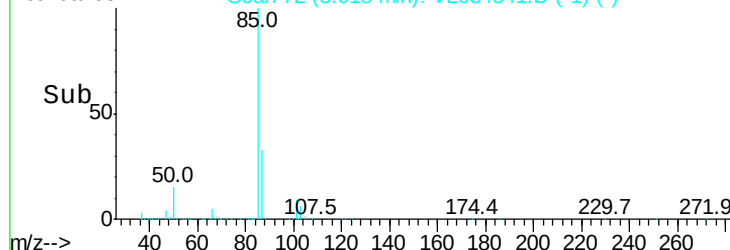
Acq: 31 Dec 2019 10:20

Tgt Ion: 85 Resp: 1434335

Ion	Ratio	Lower	Upper
85	100		
87	33.3	27.9	41.9

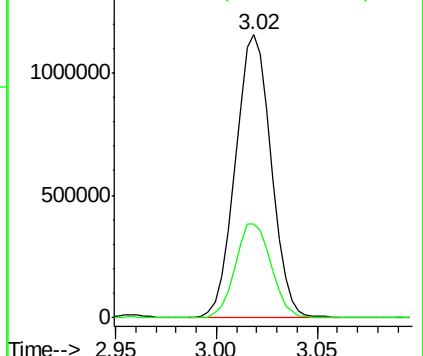


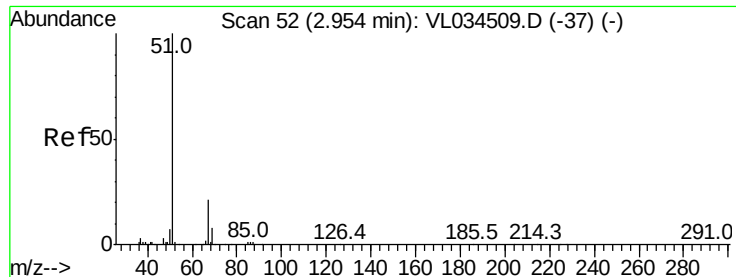
Scan 72 (3.018 min): VL034541.D (-1) (-)



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.058 ppbv

RT: 2.96 min Scan# 53

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

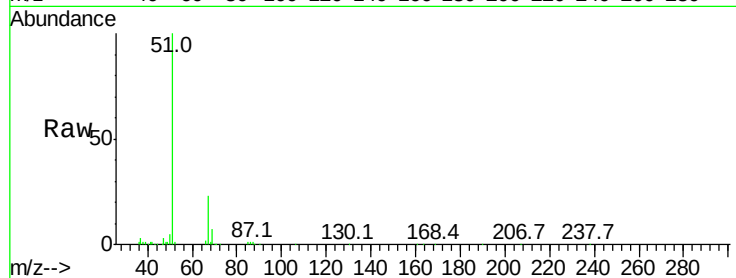
VSTDCCC010EC

Tgt Ion: 51 Resp: 1084573

Ion Ratio Lower Upper

51 100

67 21.2 16.8 25.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.96

800000

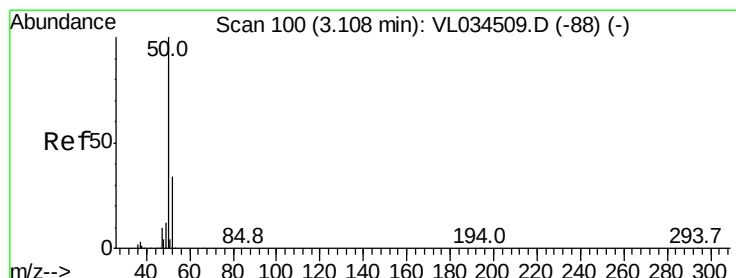
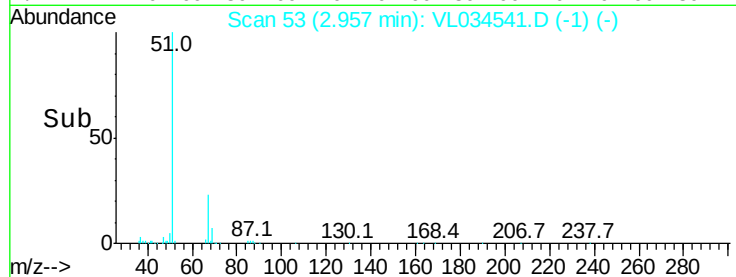
600000

400000

200000

0

Time-->



#4

Chloromethane

Concen: 9.372 ppbv

RT: 3.11 min Scan# 101

Delta R.T. 0.00 min

Lab File: VL034541.D

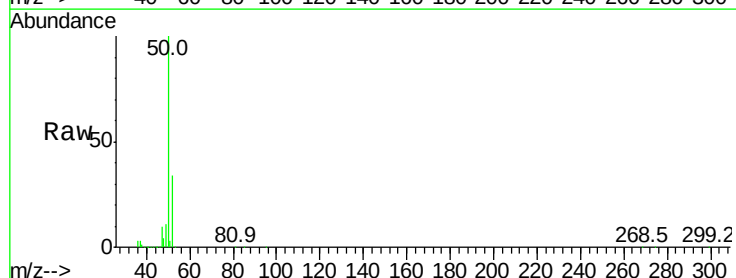
Acq: 31 Dec 2019 10:20

Tgt Ion: 50 Resp: 666567

Ion Ratio Lower Upper

50 100

52 34.1 27.6 41.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.11

600000

500000

400000

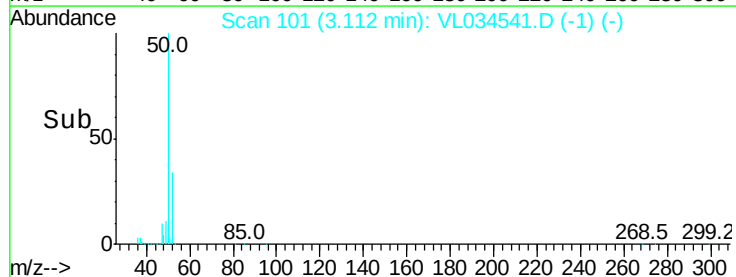
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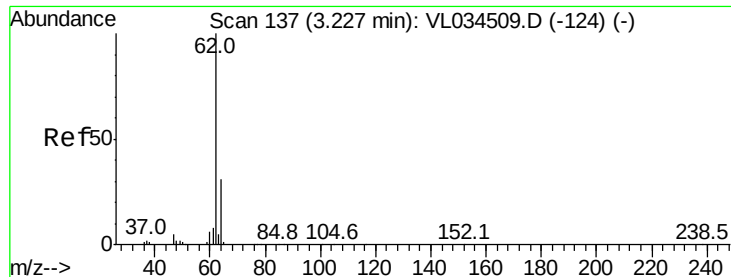
200000

100000

0

Time-->





#5

Vinyl Chloride

Concen: 8.865 ppbv

RT: 3.23 min Scan# 138

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

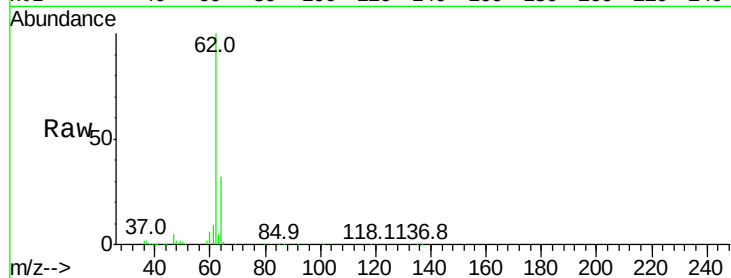
VSTDCCC010EC

Tgt Ion: 62 Resp: 617399

Ion Ratio Lower Upper

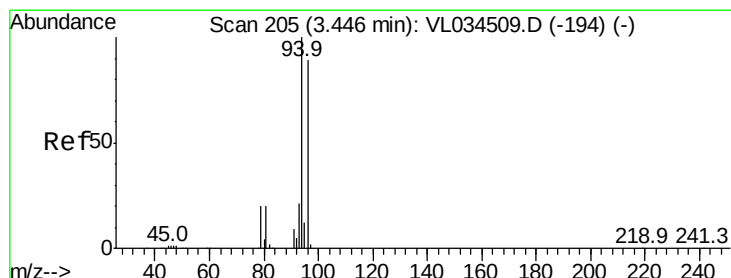
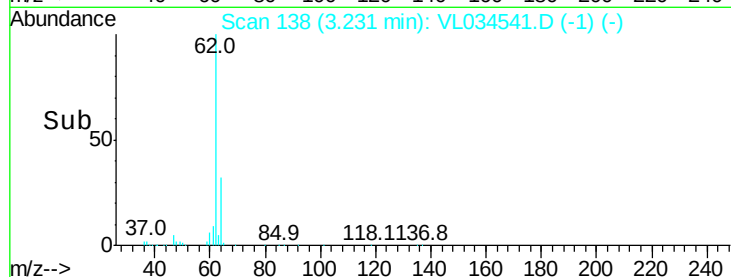
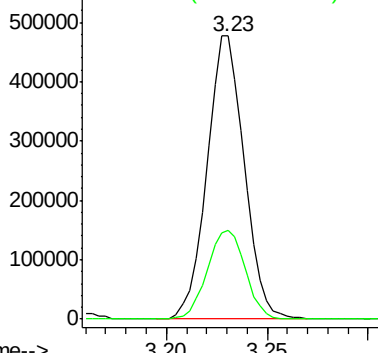
62 100

64 31.6 24.9 37.3



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.643 ppbv

RT: 3.45 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL034541.D

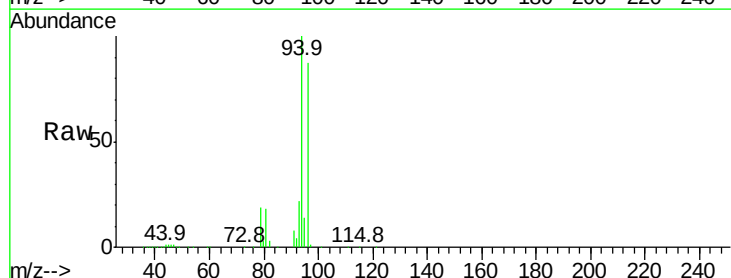
Acq: 31 Dec 2019 10:20

Tgt Ion: 94 Resp: 334287

Ion Ratio Lower Upper

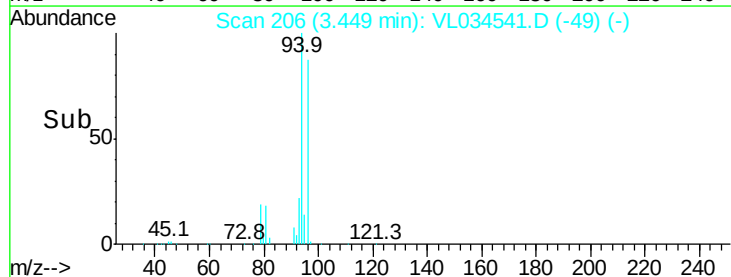
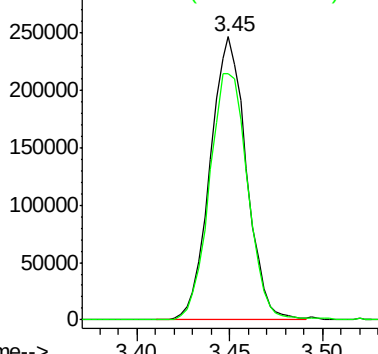
94 100

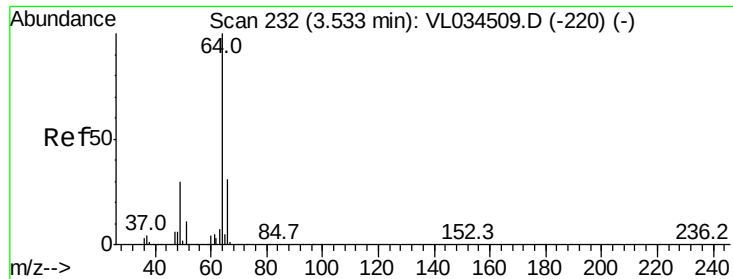
96 86.9 71.2 106.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.701 ppbv

RT: 3.53 min Scan# 232

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

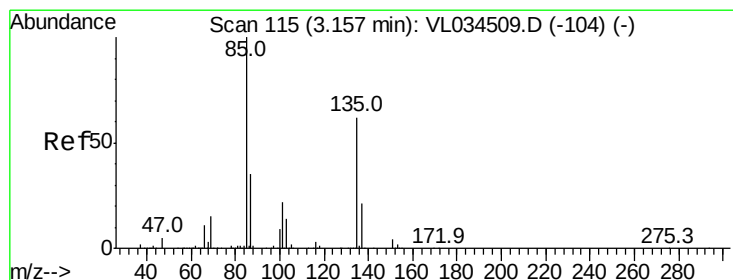
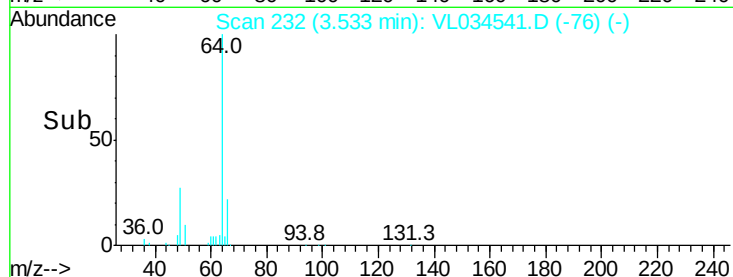
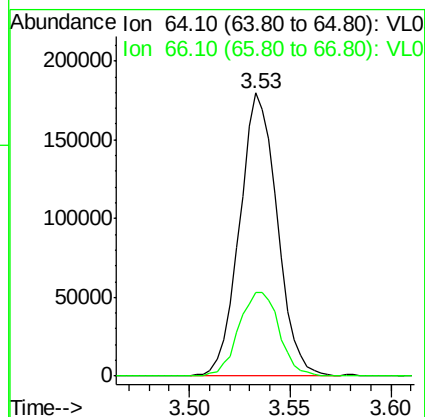
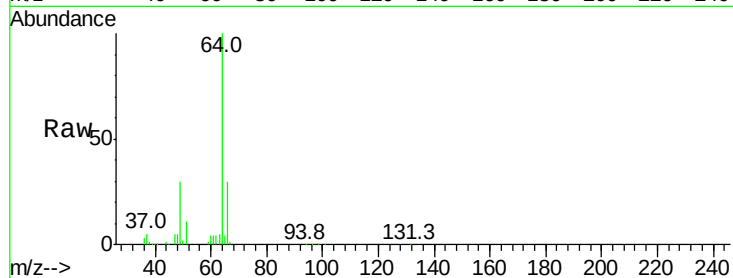
VSTDCCC010EC

Tgt Ion: 64 Resp: 235441

Ion Ratio Lower Upper

64 100

66 29.7 25.0 37.4



#8

Dichlorotetrafluoroethane

Concen: 9.255 ppbv

RT: 3.16 min Scan# 116

Delta R.T. 0.00 min

Lab File: VL034541.D

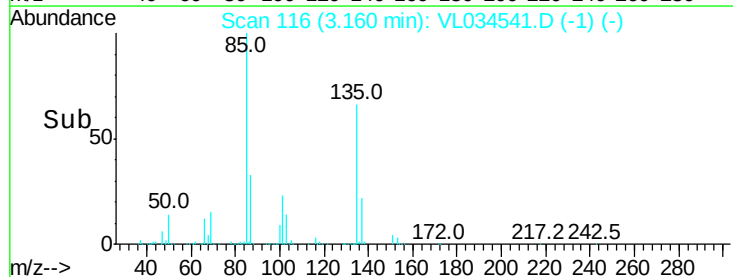
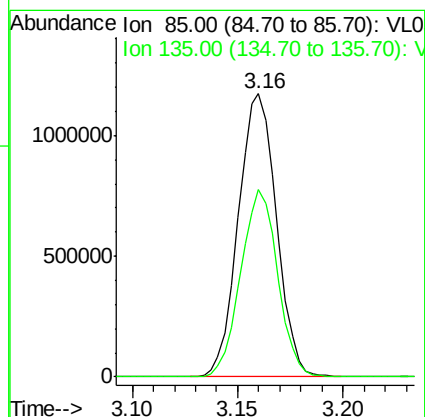
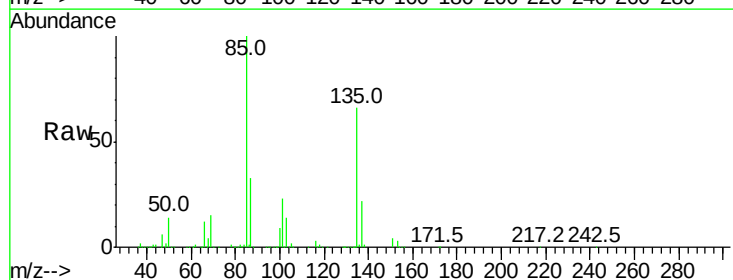
Acq: 31 Dec 2019 10:20

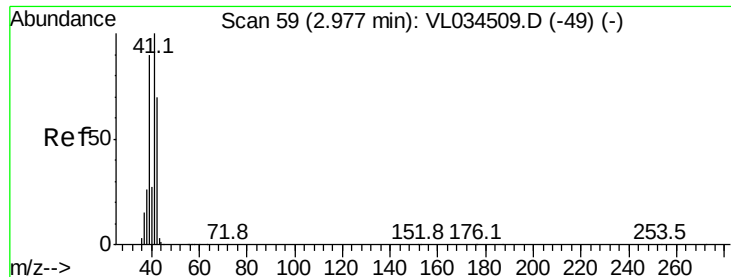
Tgt Ion: 85 Resp: 1471163

Ion Ratio Lower Upper

85 100

135 64.5 51.8 77.8





#9

Propene

Concen: 9.997 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

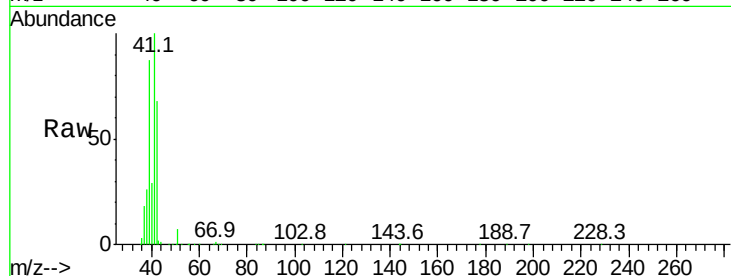
VSTDCCC010EC

Tgt Ion: 41 Resp: 461500

Ion Ratio Lower Upper

41 100

42 69.4 55.8 83.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

2.98

400000

300000

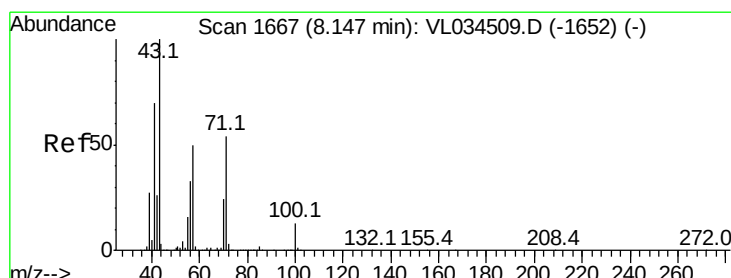
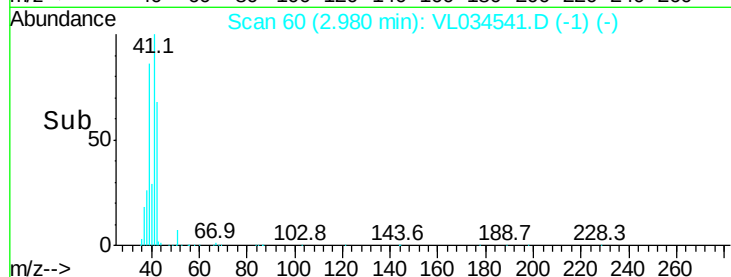
200000

100000

0

Time-->

2.95 3.00



#10

Heptane

Concen: 10.126 ppbv

RT: 8.15 min Scan# 1668

Delta R.T. 0.00 min

Lab File: VL034541.D

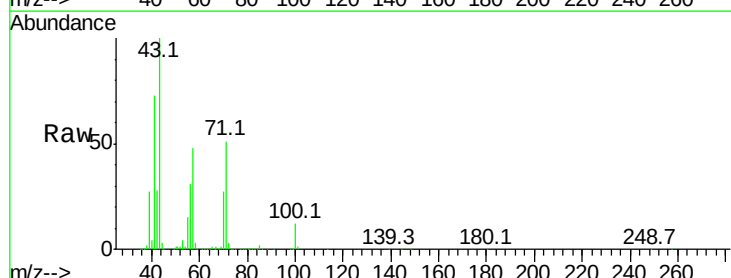
Acq: 31 Dec 2019 10:20

Tgt Ion: 43 Resp: 1207088

Ion Ratio Lower Upper

43 100

57 50.4 41.0 61.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.15

600000

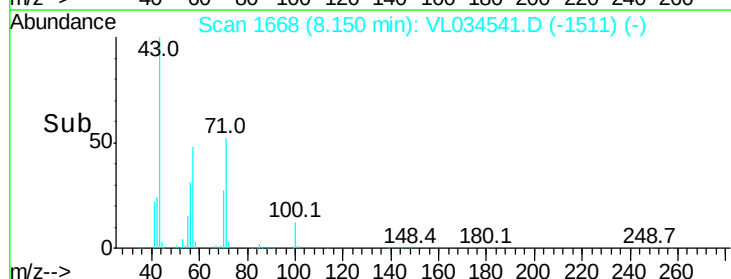
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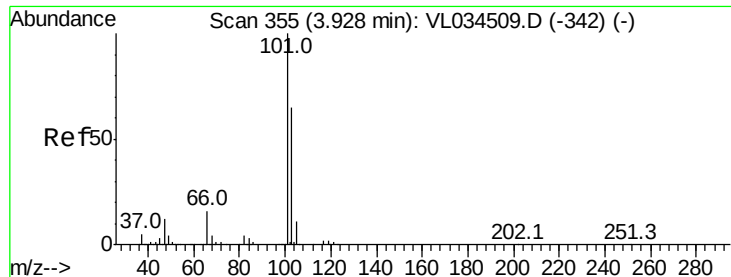
200000

0

Time-->

8.10 8.15 8.20

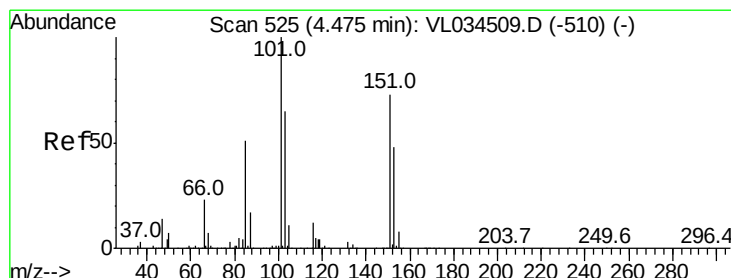
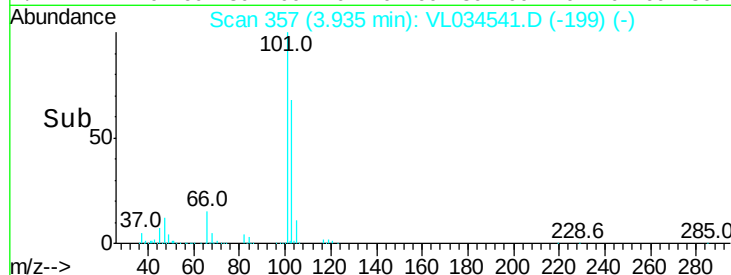
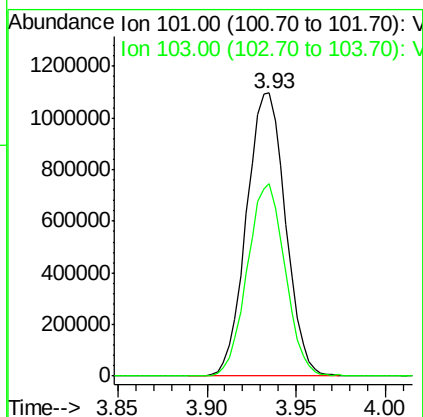
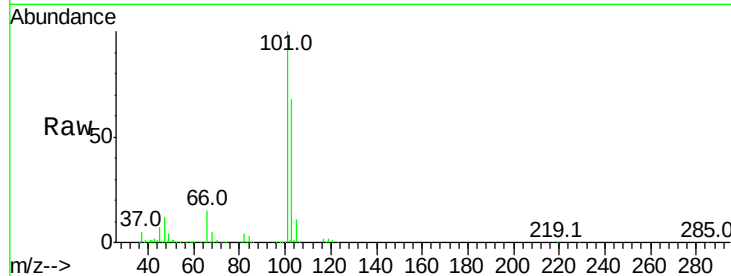




#11
 Trichlorofluoromethane
 Concen: 9.163 ppbv
 RT: 3.93 min Scan# 357
 Delta R.T. 0.01 min
 Lab File: VL034541.D
 Acq: 31 Dec 2019 10:20

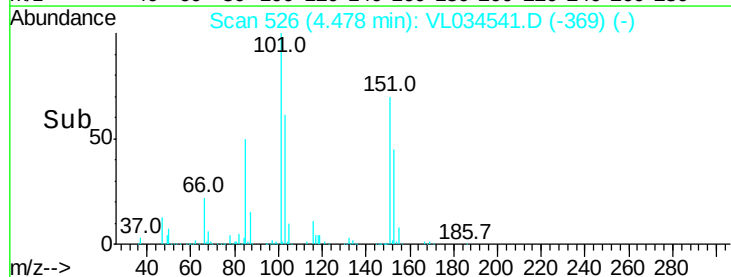
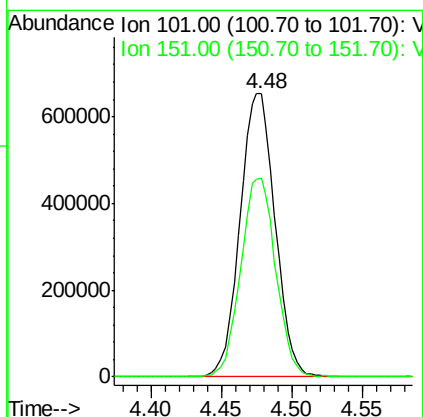
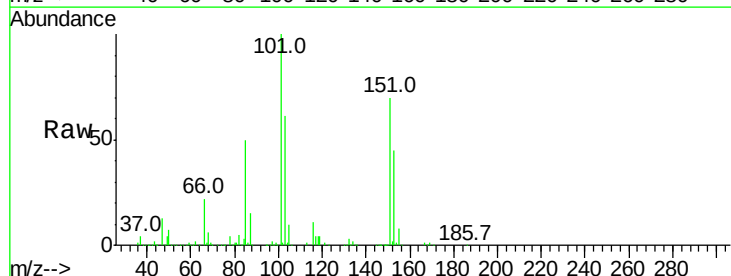
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

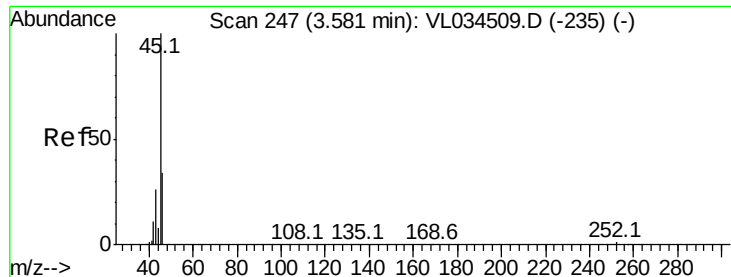
Tgt Ion:101 Resp: 1680499
 Ion Ratio Lower Upper
 101 100
 103 68.2 52.1 78.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.762 ppbv
 RT: 4.48 min Scan# 526
 Delta R.T. 0.00 min
 Lab File: VL034541.D
 Acq: 31 Dec 2019 10:20

Tgt Ion:101 Resp: 1138776
 Ion Ratio Lower Upper
 101 100
 151 70.0 57.8 86.6





#13

Ethanol

Concen: 8.200 ppbv

RT: 3.58 min Scan# 248

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

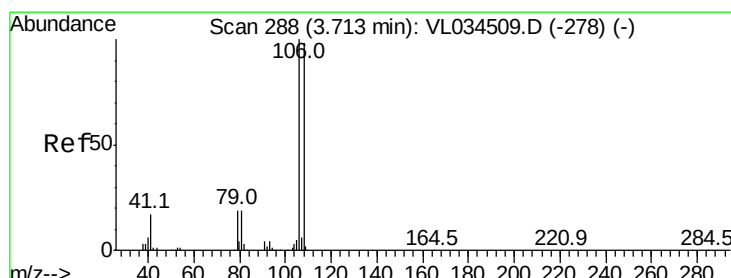
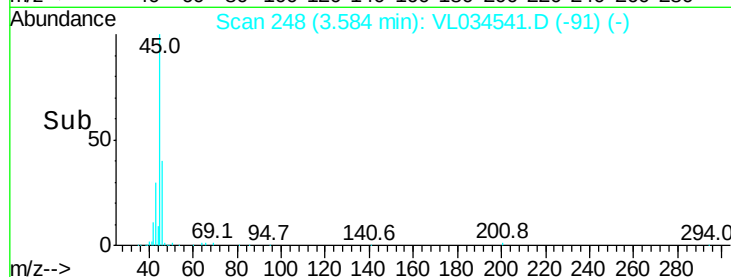
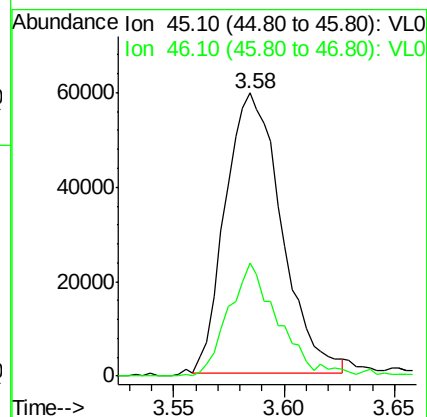
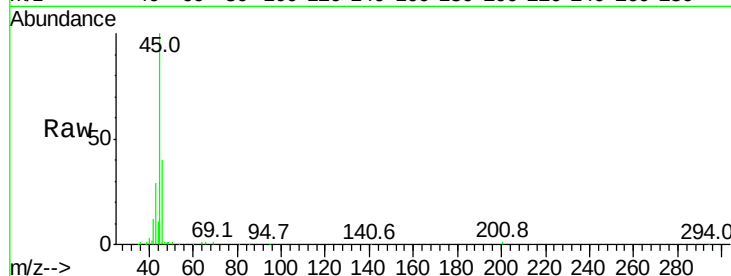
VSTDCCC010EC

Tgt Ion: 45 Resp: 105029

Ion Ratio Lower Upper

45 100

46 36.3 14.9 59.7



#14

Bromoethene

Concen: 9.699 ppbv

RT: 3.72 min Scan# 290

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

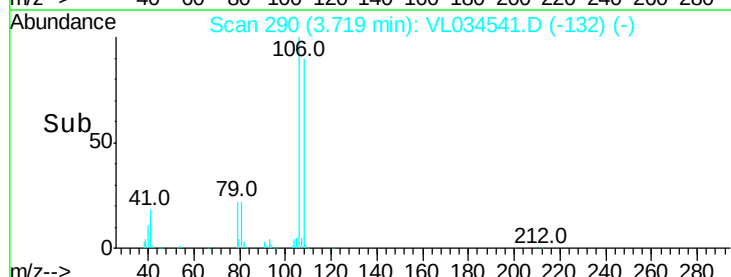
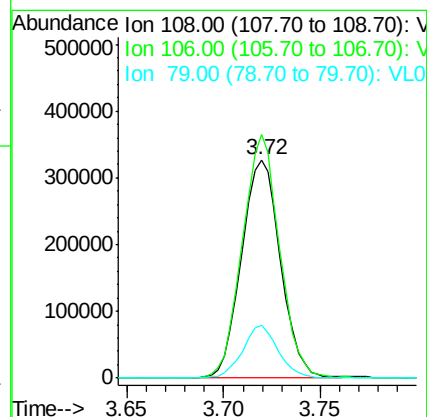
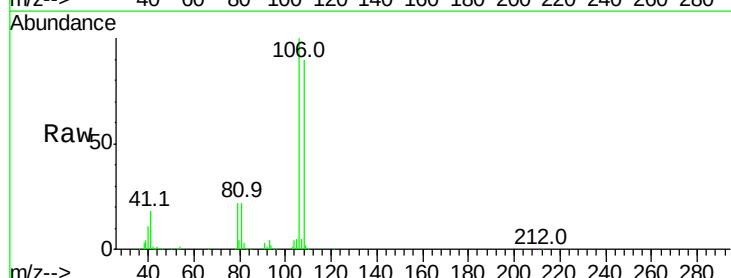
Tgt Ion: 108 Resp: 457610

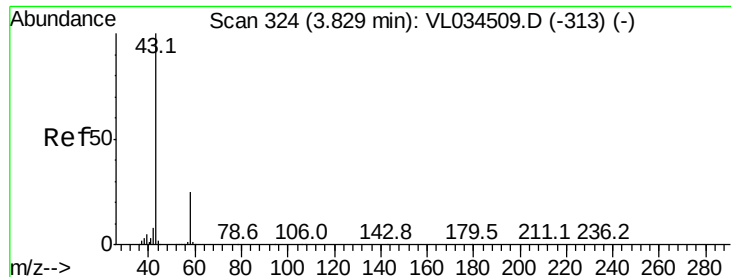
Ion Ratio Lower Upper

108 100

106 107.4 85.2 127.8

79 22.4 17.4 26.2





#15

Acetone

Concen: 8.353 ppbv

RT: 3.83 min Scan# 325

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

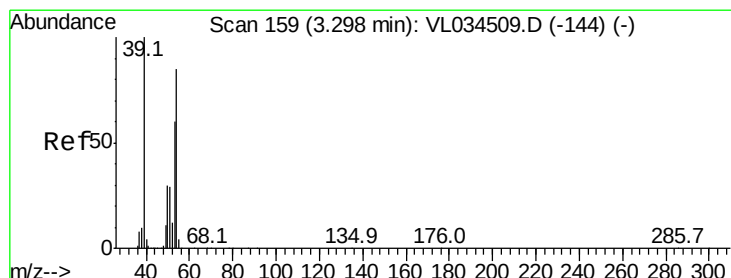
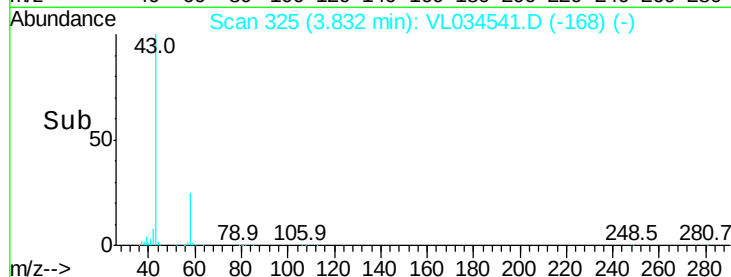
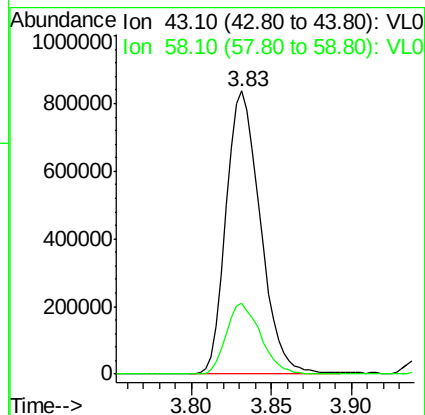
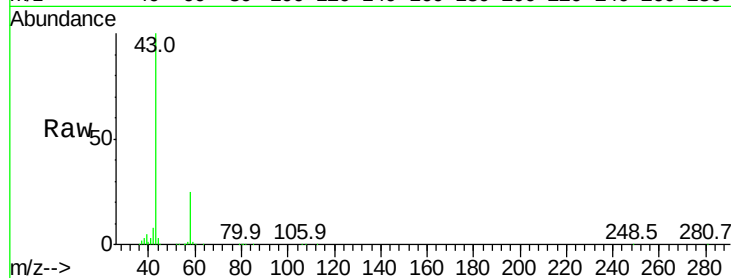
VSTDCCC010EC

Tgt Ion: 43 Resp: 1225015

Ion Ratio Lower Upper

43 100

58 25.3 20.4 30.6



#16

1,3-Butadiene

Concen: 10.114 ppbv

RT: 3.30 min Scan# 160

Delta R.T. 0.00 min

Lab File: VL034541.D

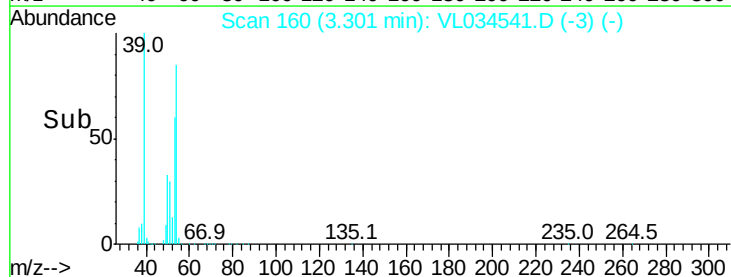
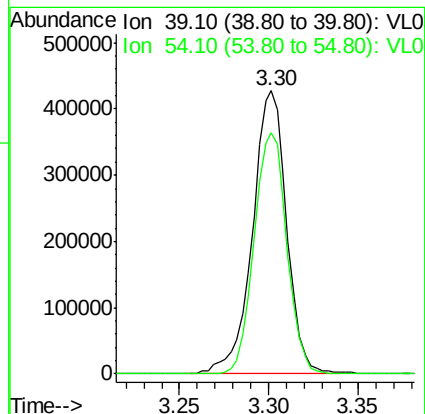
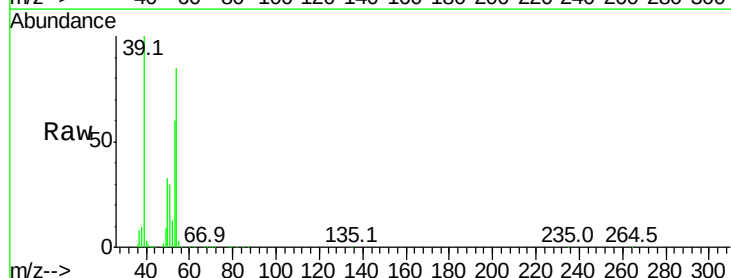
Acq: 31 Dec 2019 10:20

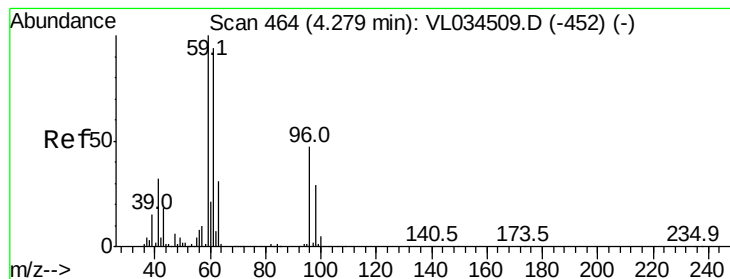
Tgt Ion: 39 Resp: 570473

Ion Ratio Lower Upper

39 100

54 82.4 66.2 99.2





#17

tert-Butyl alcohol

Concen: 9.909 ppbv

RT: 4.28 min Scan# 465

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

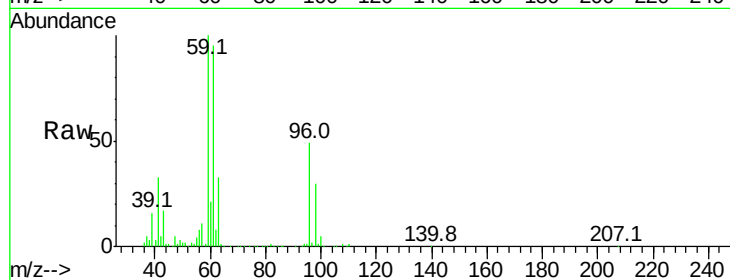
VSTDCCC010EC

Tgt Ion: 59 Resp: 1163702

Ion Ratio Lower Upper

59 100

57 11.0 8.6 12.8



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.28

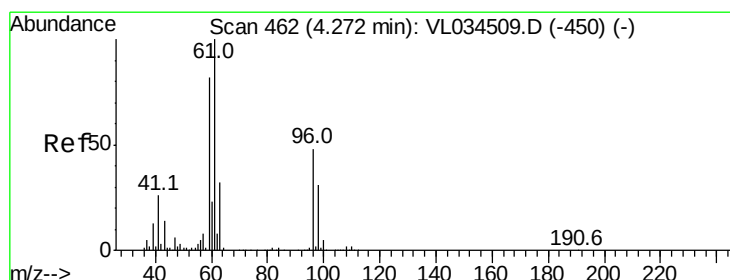
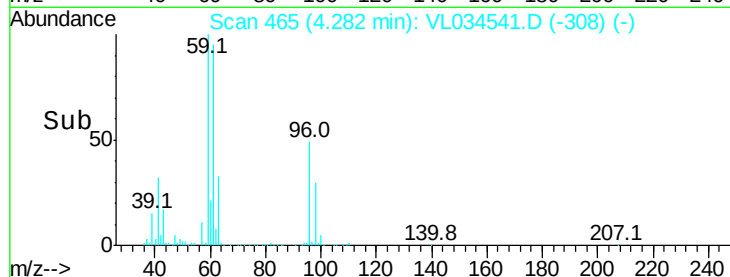
600000

400000

200000

0

Time--> 4.20 4.25 4.30 4.35



#18

1,1-Dichloroethene

Concen: 9.772 ppbv

RT: 4.28 min Scan# 463

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

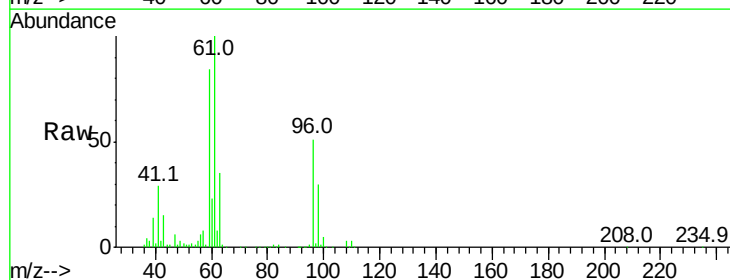
Tgt Ion: 96 Resp: 496540

Ion Ratio Lower Upper

96 100

61 194.5 165.9 248.9

98 59.3 51.9 77.9



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

4.28

800000

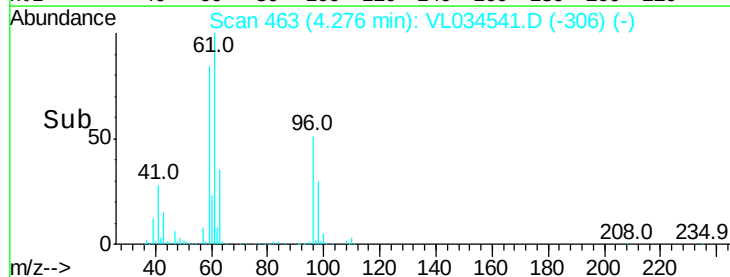
600000

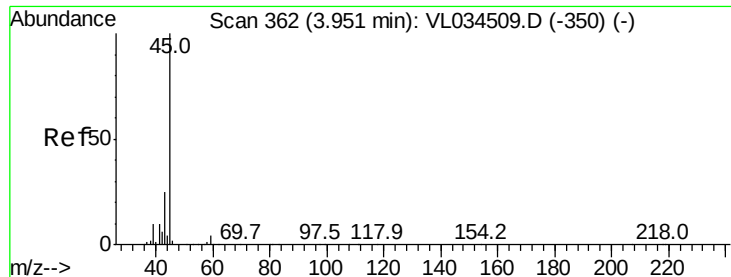
400000

200000

0

Time--> 4.20 4.25 4.30





#19

Isopropyl Alcohol

Concen: 9.546 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

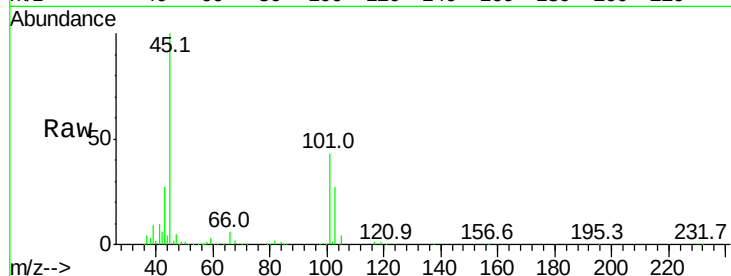
VSTDCCC010EC

Tgt Ion: 45 Resp: 906299

Ion Ratio Lower Upper

45 100

58 1.7 1.4 2.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

600000

500000

400000

300000

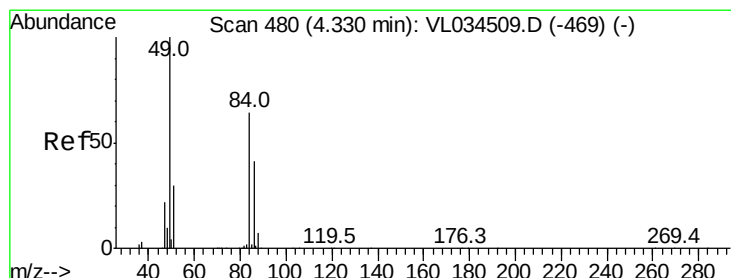
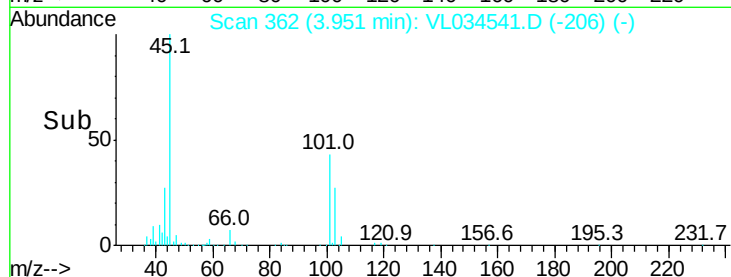
200000

100000

0

3.90 3.95 4.00 4.05

Time-->



#20

Methylene Chloride

Concen: 7.744 ppbv

RT: 4.33 min Scan# 481

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Tgt Ion: 84 Resp: 446881

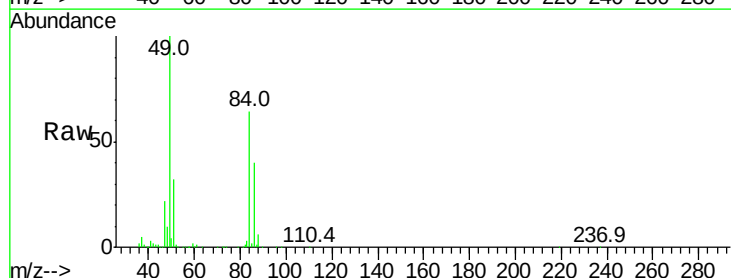
Ion Ratio Lower Upper

84 100

49 153.3 124.4 186.6

51 48.6 37.0 55.6

86 62.6 50.9 76.3



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

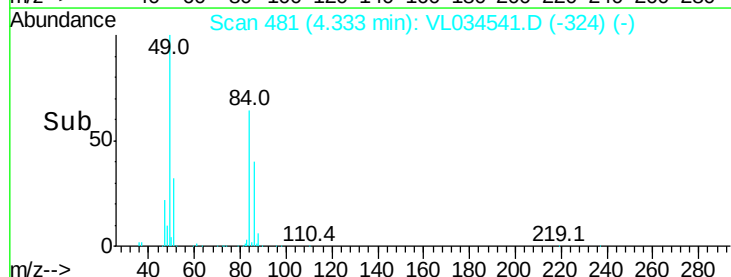
400000

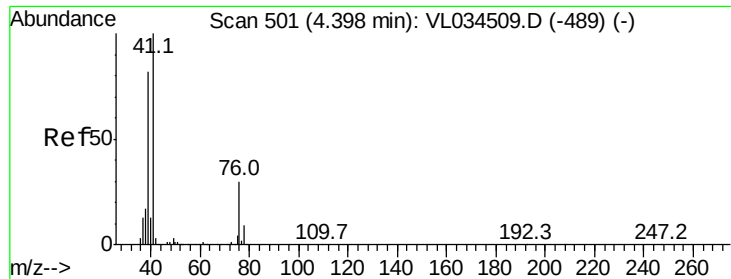
200000

0

4.30 4.33 4.40

Time-->





#21

Allyl Chloride

Concen: 10.086 ppbv

RT: 4.40 min Scan# 502

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

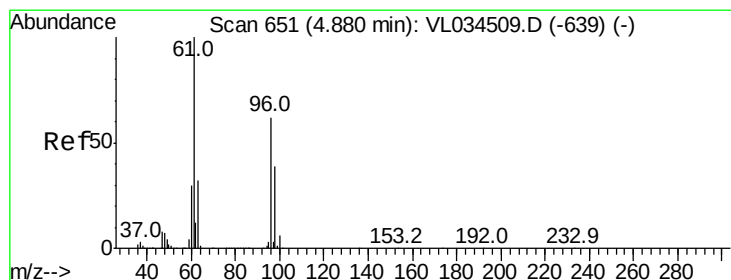
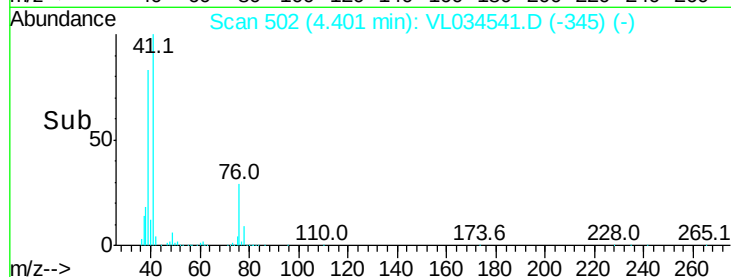
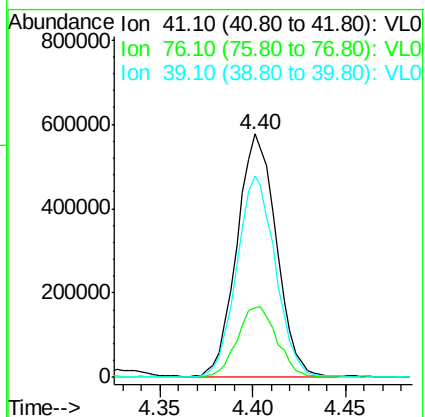
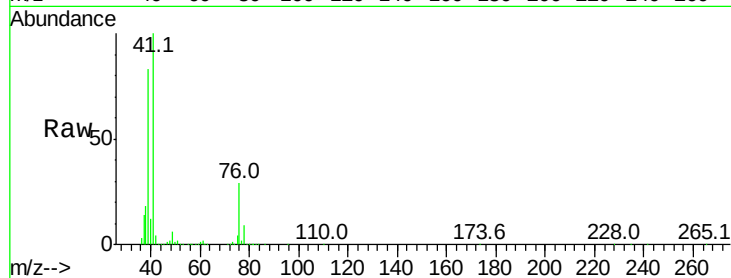
Tgt Ion: 41 Resp: 850236

Ion Ratio Lower Upper

41 100

76 29.4 24.2 36.4

39 82.0 65.8 98.6



#22

trans-1,2-Dichloroethene

Concen: 9.948 ppbv

RT: 4.88 min Scan# 652

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

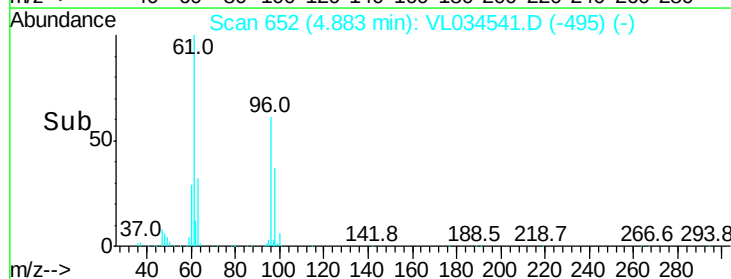
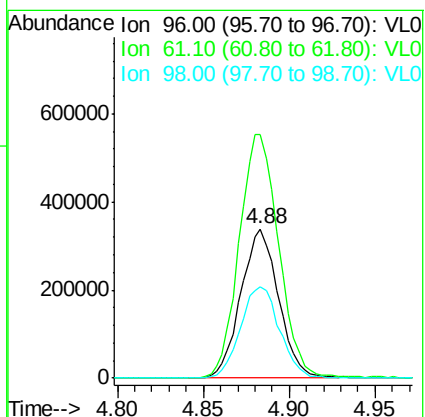
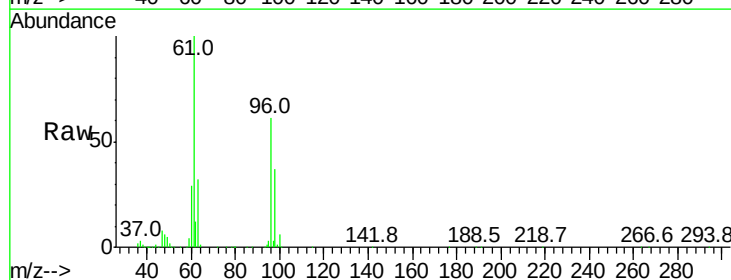
Tgt Ion: 96 Resp: 514156

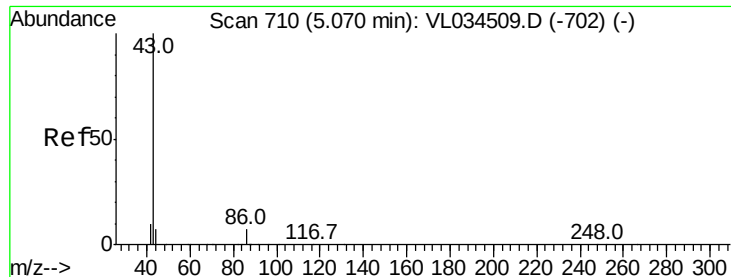
Ion Ratio Lower Upper

96 100

61 162.9 128.4 192.6

98 60.9 50.6 75.8





#23

Vinyl Acetate

Concen: 10.169 ppbv

RT: 5.07 min Scan# 711

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 1721799

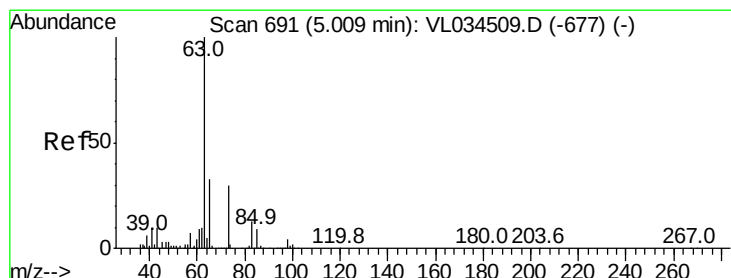
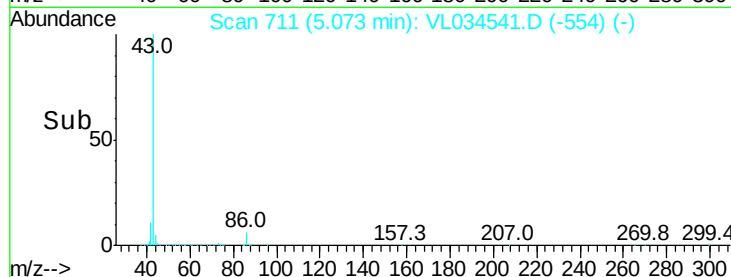
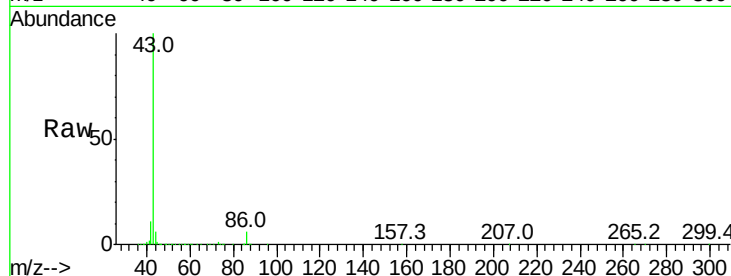
Ion	Ratio	Lower	Upper
43	100		
86	6.4	5.4	8.2
42	10.7	8.9	13.3
44	5.9	5.0	7.4

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: 9.458 ppbv

RT: 5.01 min Scan# 692

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

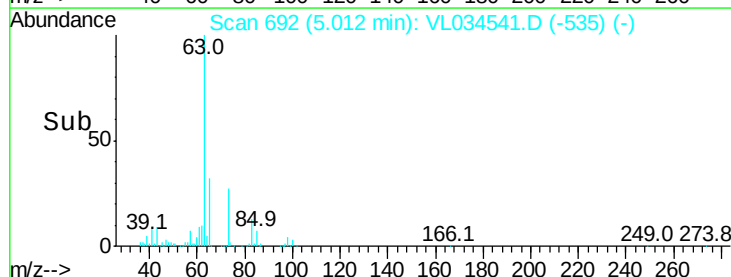
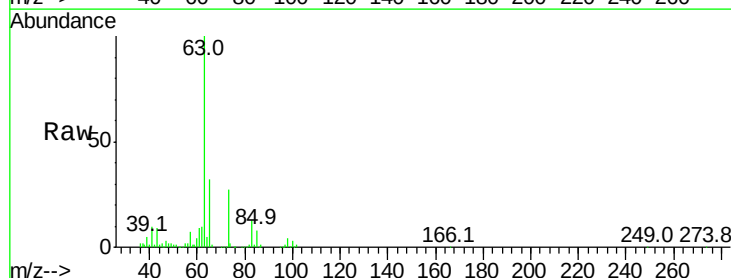
Tgt Ion: 63 Resp: 1286559

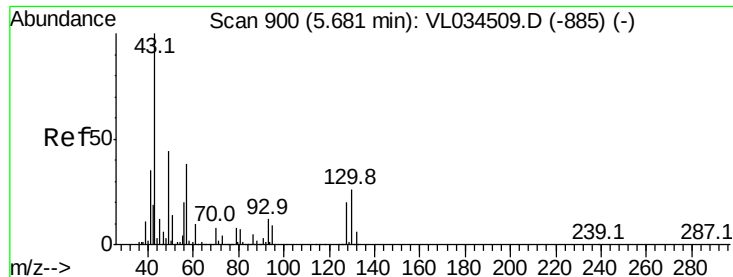
Ion	Ratio	Lower	Upper
63	100		
98	3.5	2.1	6.3
100	2.8	1.1	3.3

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: 9.634 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 2206591

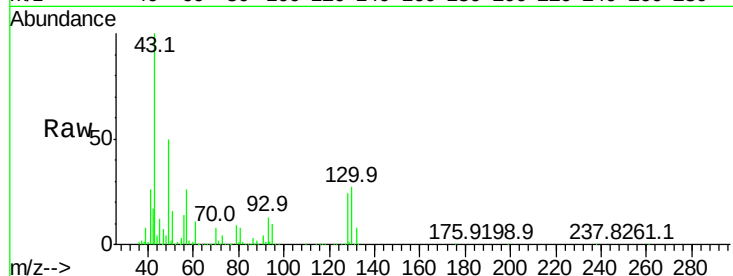
Ion Ratio Lower Upper

43 100

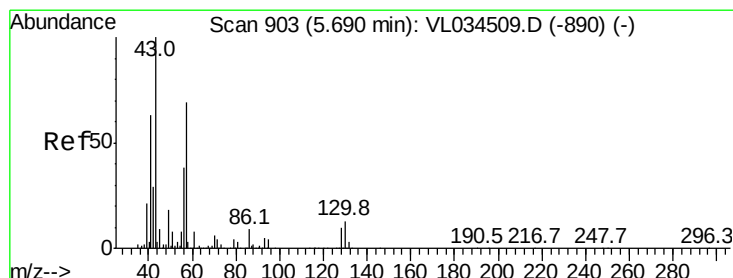
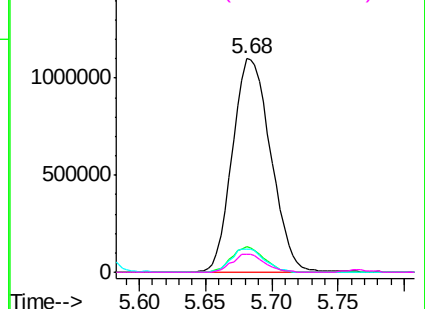
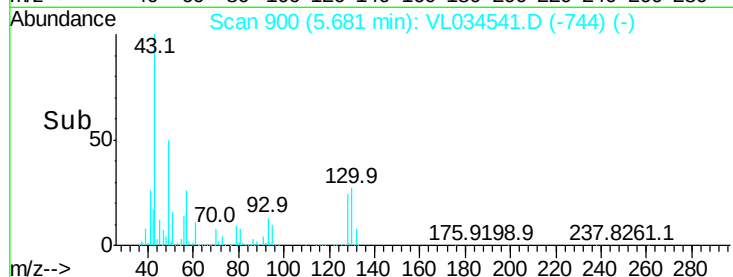
45 10.3 8.3 12.5

61 9.7 7.8 11.6

70 7.4 5.8 8.8



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: 9.566 ppbv

RT: 5.69 min Scan# 904

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Tgt Ion: 57 Resp: 923244

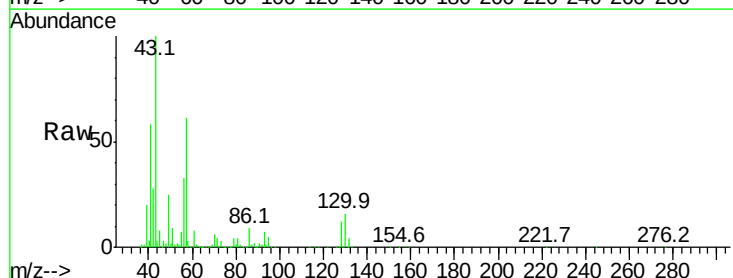
Ion Ratio Lower Upper

57 100

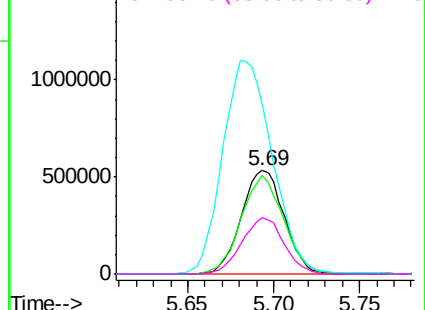
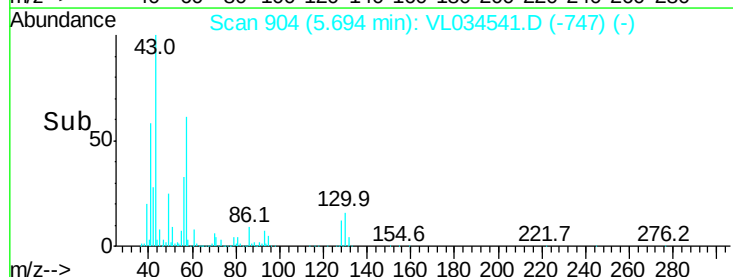
41 94.5 75.3 112.9

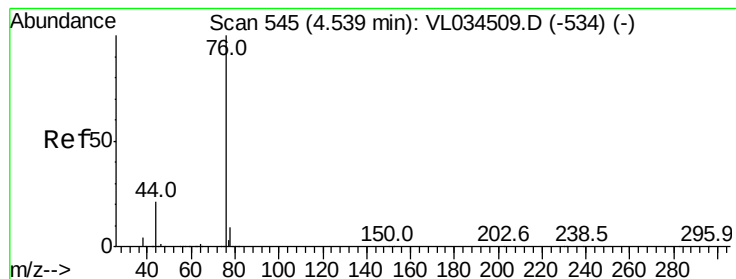
43 240.8 189.4 284.2

56 53.9 42.8 64.2



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: 10.413 ppbv

RT: 4.54 min Scan# 546

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

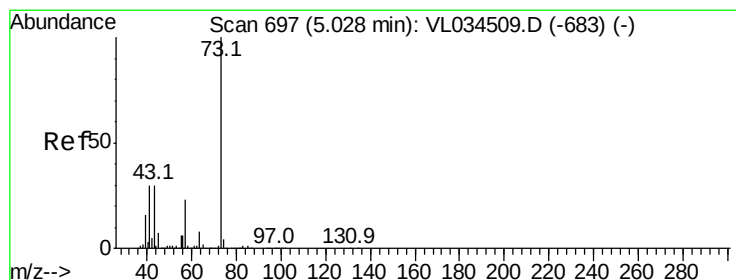
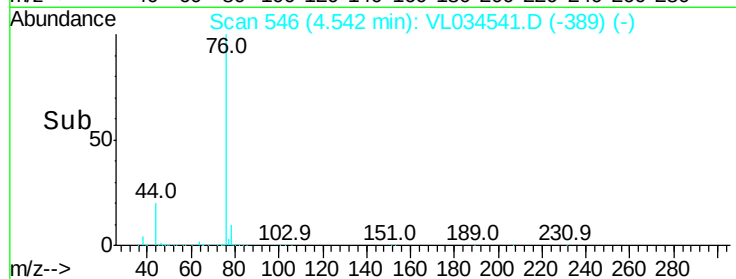
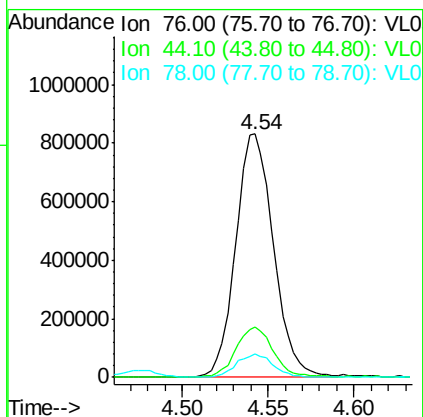
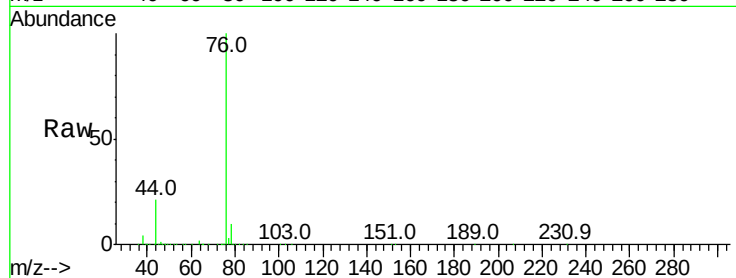
Tgt Ion: 76 Resp: 1270310

Ion Ratio Lower Upper

76 100

44 20.3 16.6 25.0

78 9.6 7.4 11.0



#28

Methyl tert-Butyl Ether

Concen: 10.353 ppbv

RT: 5.03 min Scan# 698

Delta R.T. 0.00 min

Lab File: VL034541.D

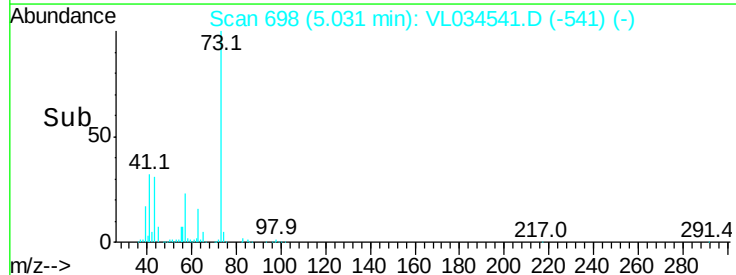
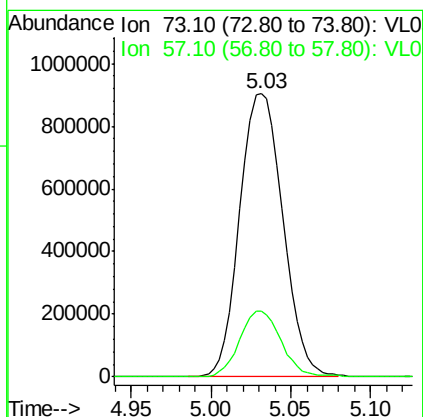
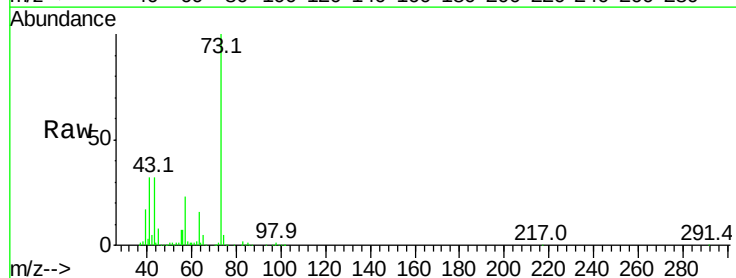
Acq: 31 Dec 2019 10:20

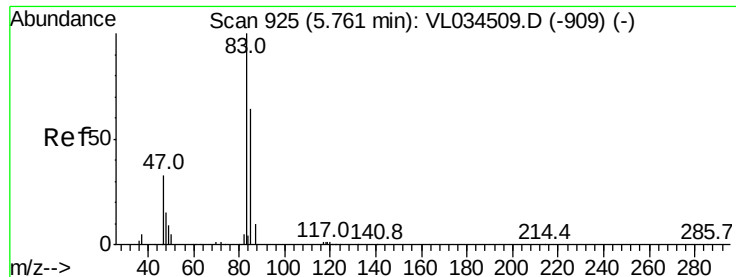
Tgt Ion: 73 Resp: 1668858

Ion Ratio Lower Upper

73 100

57 22.5 18.2 27.2

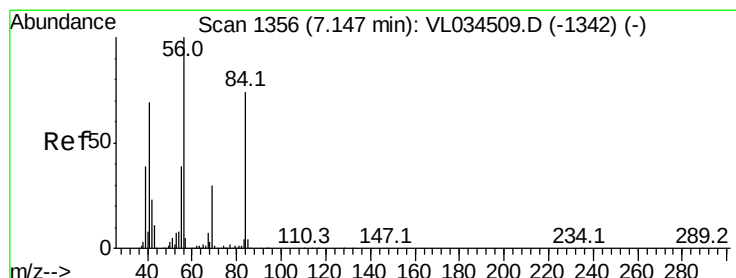
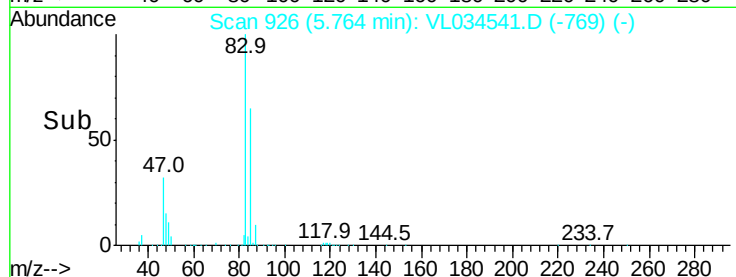
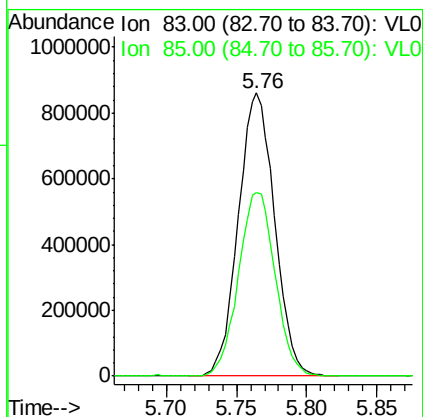
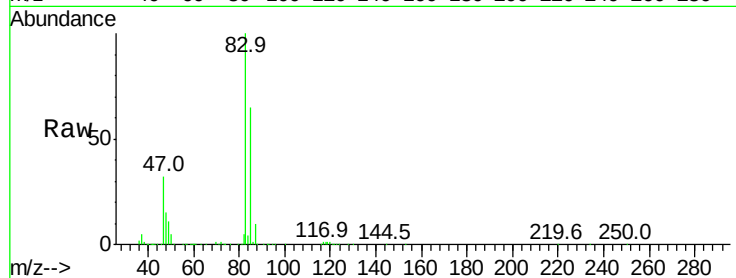




#29
Chloroform
Concen: 9.305 ppbv
RT: 5.76 min Scan# 926
Delta R.T. 0.00 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

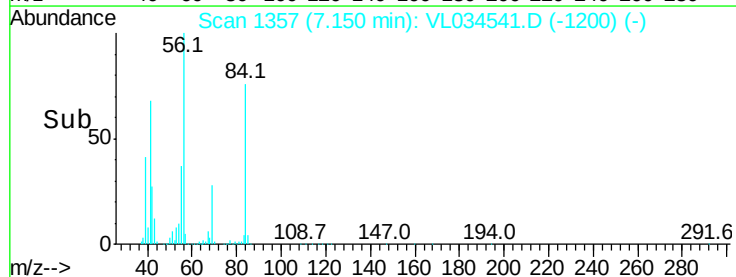
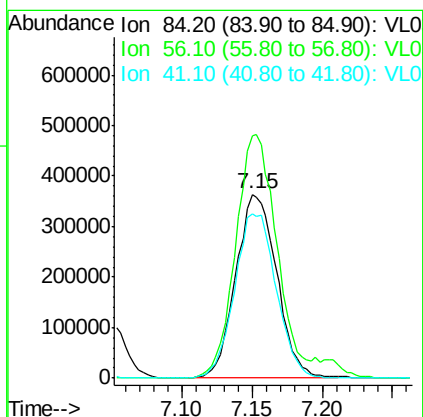
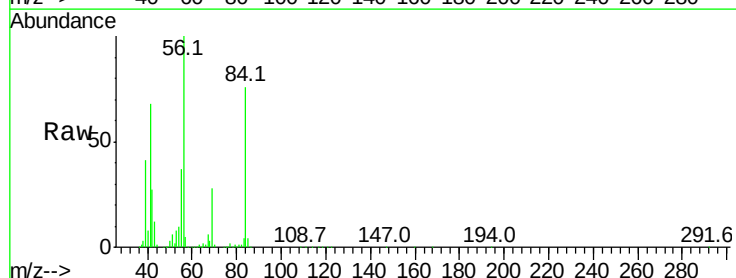
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

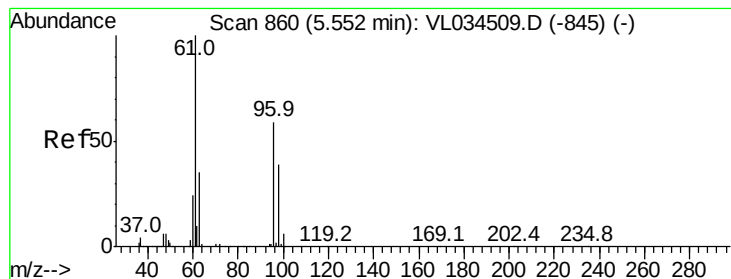
Tgt Ion: 83 Resp: 1553867
Ion Ratio Lower Upper
83 100
85 64.7 51.0 76.6



#30
Cyclohexane
Concen: 10.318 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. 0.00 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Tgt Ion: 84 Resp: 740181
Ion Ratio Lower Upper
84 100
56 139.9 112.7 169.1
41 91.2 73.0 109.4





#31

cis-1,2-Dichloroethene

Concen: 10.417 ppbv

RT: 5.56 min Scan# 861

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

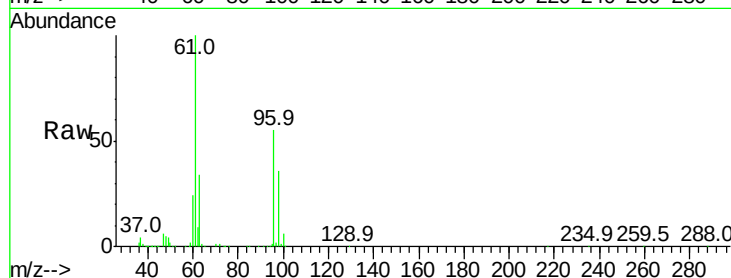
Tgt Ion: 61 Resp: 1024513

Ion Ratio Lower Upper

61 100

96 55.2 47.1 70.7

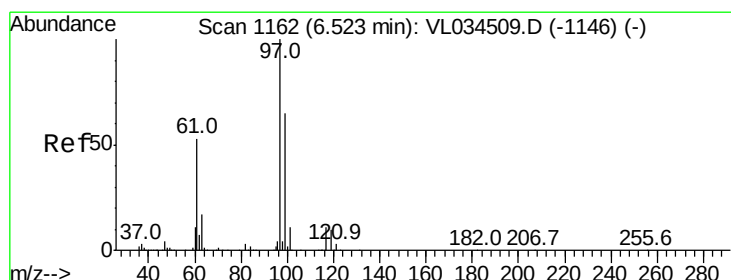
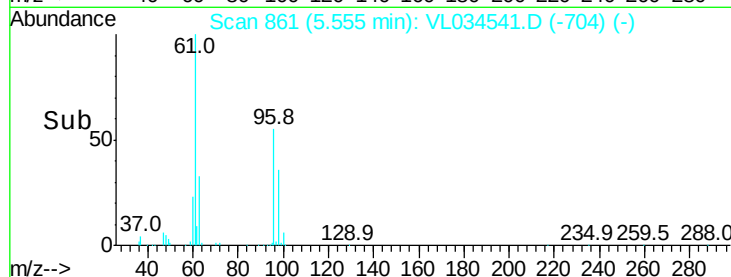
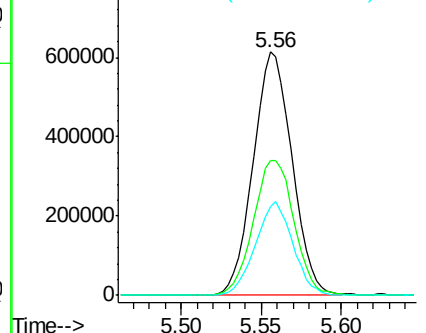
98 36.3 31.0 46.6



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 9.172 ppbv

RT: 6.53 min Scan# 1164

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

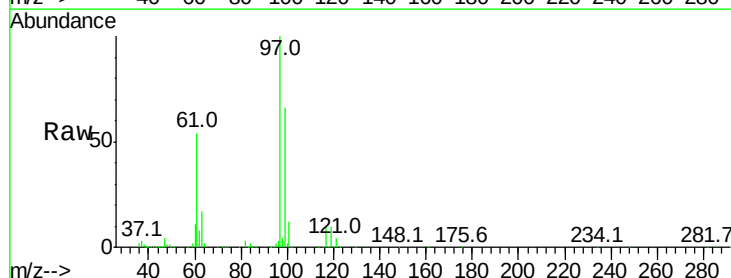
Tgt Ion: 97 Resp: 1589911

Ion Ratio Lower Upper

97 100

99 65.1 51.7 77.5

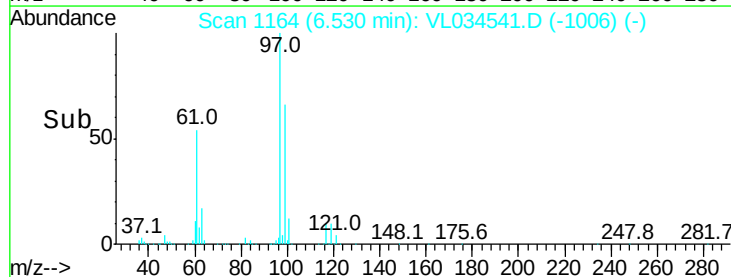
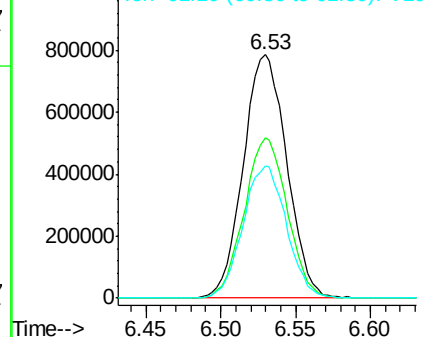
61 54.3 42.9 64.3

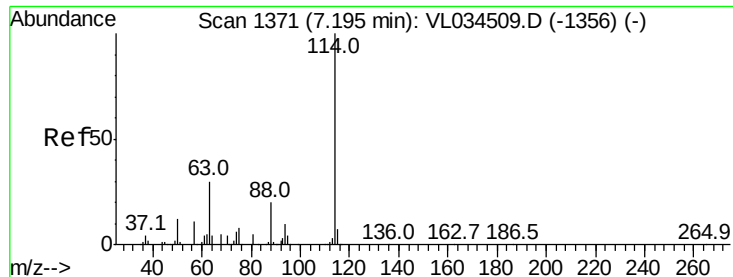


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

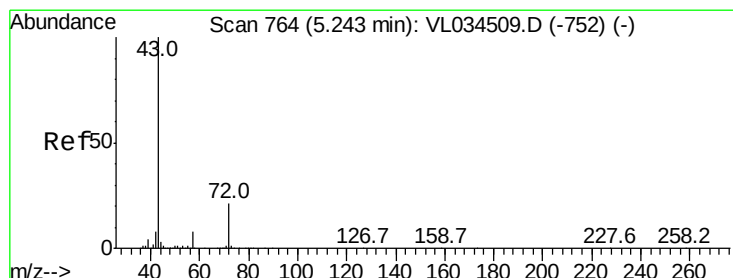
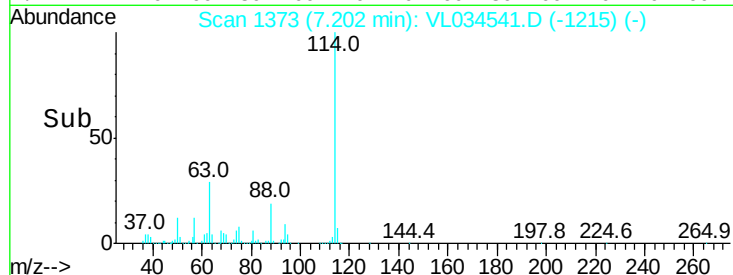
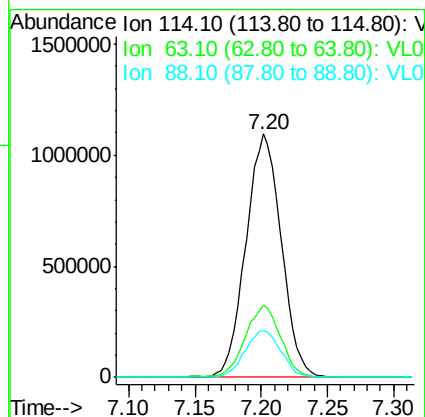
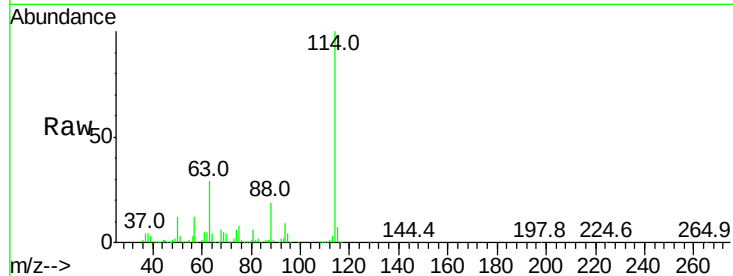




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1373
 Delta R.T. 0.01 min
 Lab File: VL034541.D
 Acq: 31 Dec 2019 10:20

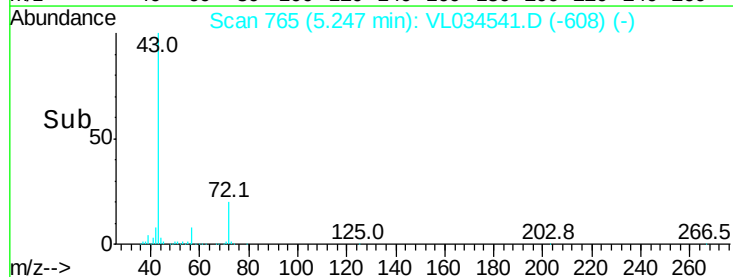
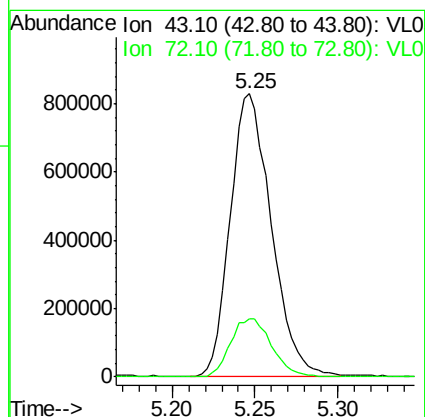
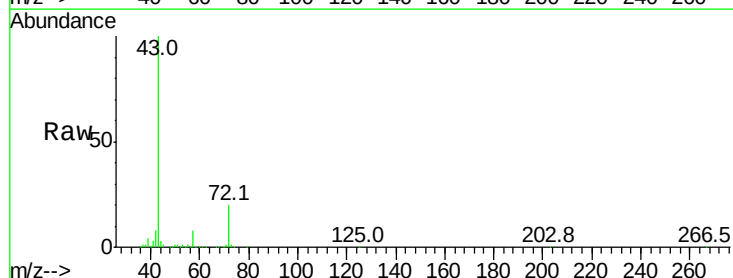
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

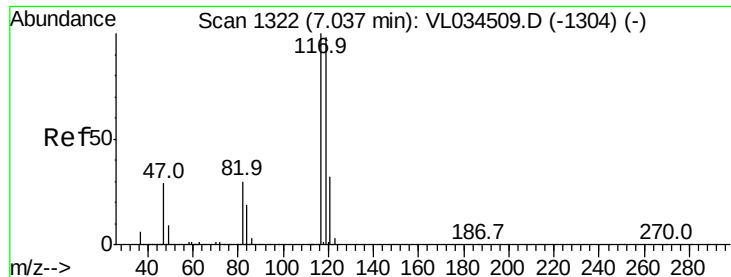
Tgt Ion: 114 Resp: 2036055
 Ion Ratio Lower Upper
 114 100
 63 29.8 24.1 36.1
 88 19.4 15.7 23.5



#34
 2-Butanone
 Concen: 9.777 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. 0.00 min
 Lab File: VL034541.D
 Acq: 31 Dec 2019 10:20

Tgt Ion: 43 Resp: 1422540
 Ion Ratio Lower Upper
 43 100
 72 20.8 17.0 25.4





#35

Carbon Tetrachloride

Concen: 9.219 ppbv

RT: 7.04 min Scan# 1323

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

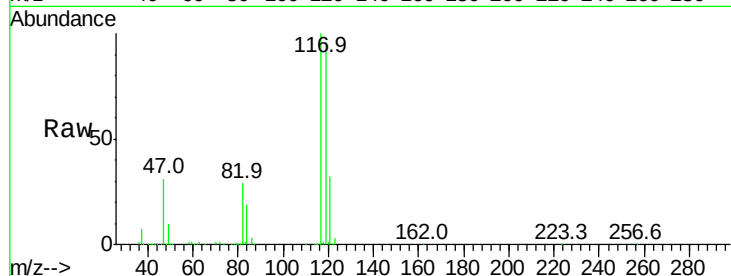
Tgt Ion:117 Resp: 1702307

Ion Ratio Lower Upper

117 100

119 96.1 78.7 118.1

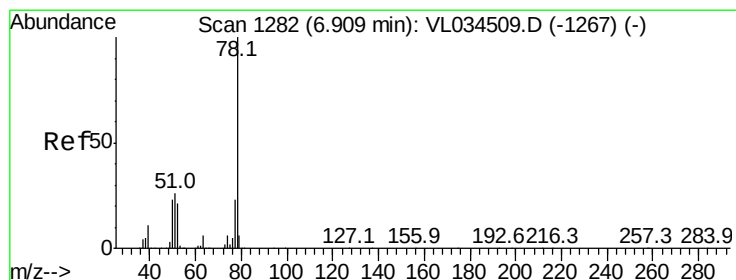
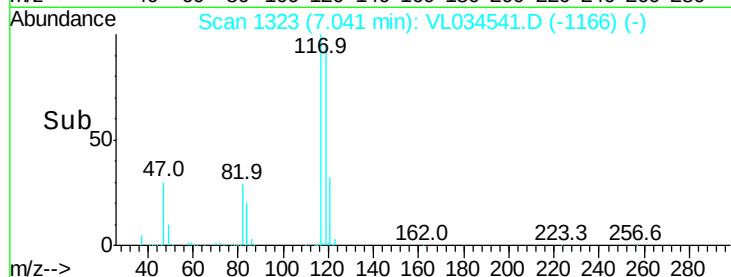
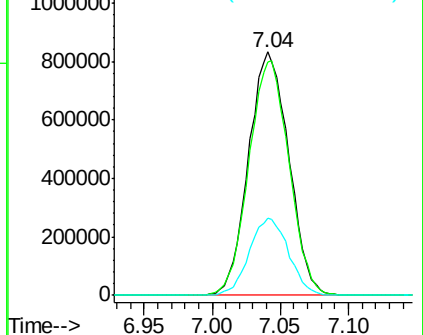
121 31.8 25.9 38.9



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.942 ppbv

RT: 6.92 min Scan# 1284

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

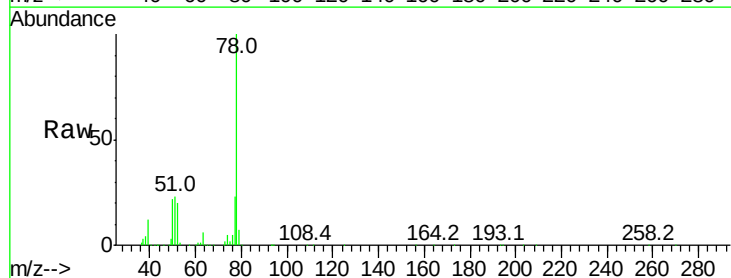
Tgt Ion: 78 Resp: 1764447

Ion Ratio Lower Upper

78 100

77 22.6 18.6 28.0

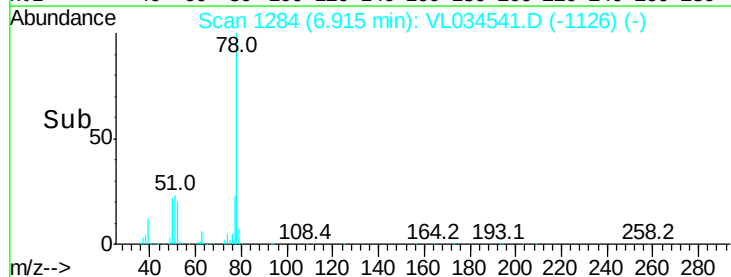
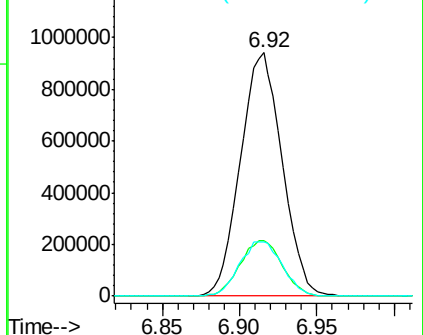
50 22.2 18.8 28.2

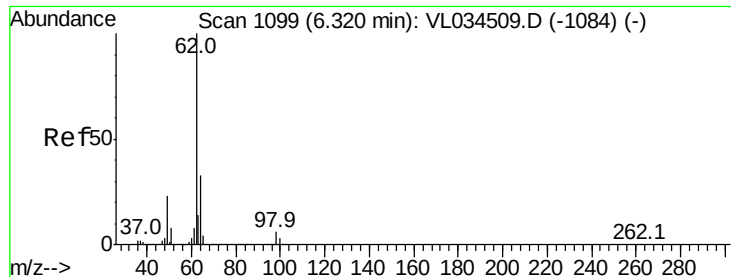


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 9.410 ppbv

RT: 6.32 min Scan# 1100

Delta R.T. 0.00 min

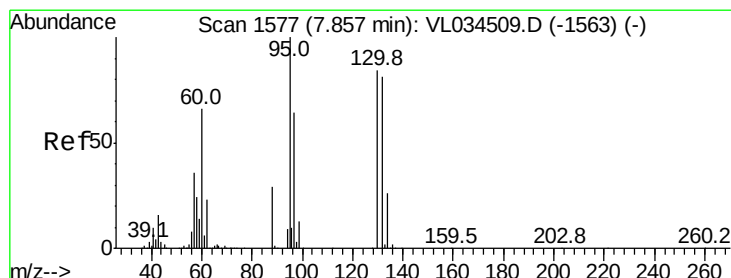
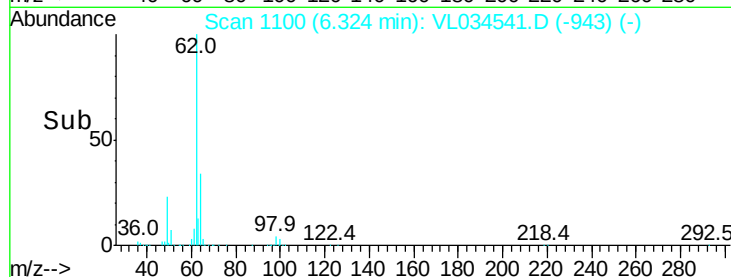
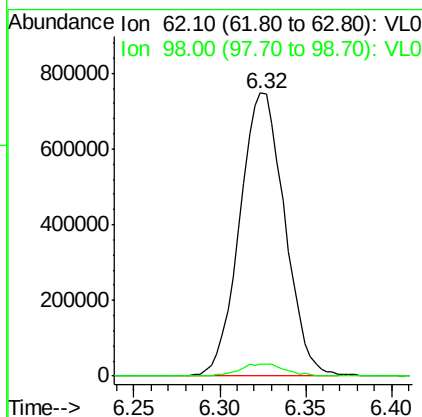
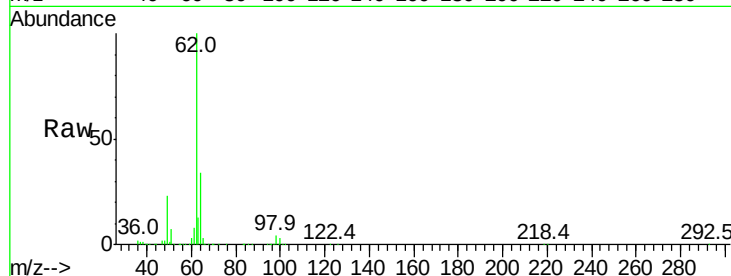
Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 62 Resp: 1356293

Ion	Ratio	Lower	Upper
62	100		
98	4.5	3.8	5.6



#38

Trichloroethene

Concen: 10.089 ppbv

RT: 7.87 min Scan# 1580

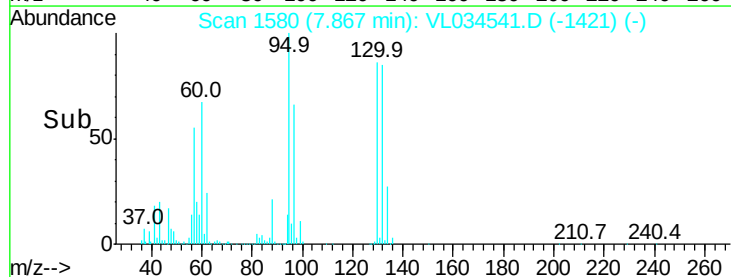
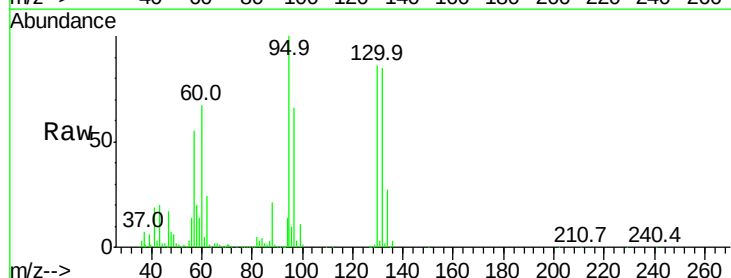
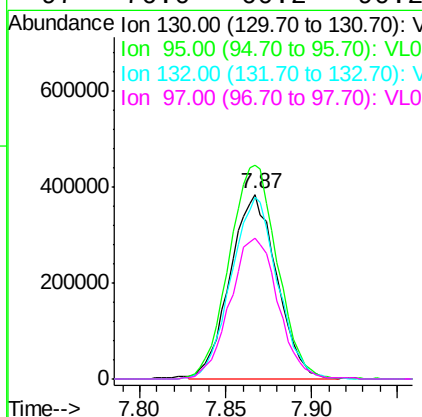
Delta R.T. 0.01 min

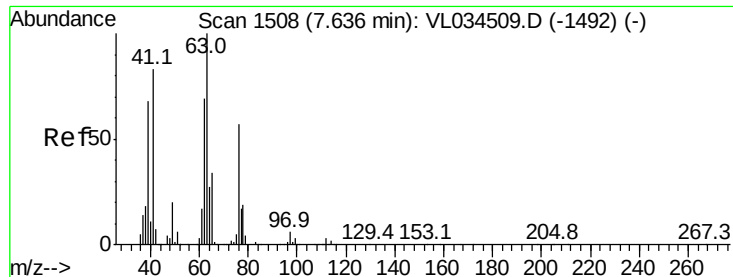
Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Tgt Ion: 130 Resp: 723353

Ion	Ratio	Lower	Upper
130	100		
95	115.4	94.2	141.2
132	98.1	76.1	114.1
97	76.0	60.2	90.2





#39

1,2-Dichloropropane

Concen: 9.986 ppbv

RT: 7.64 min Scan# 1510

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

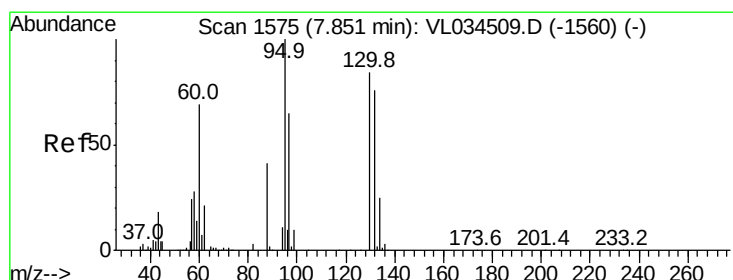
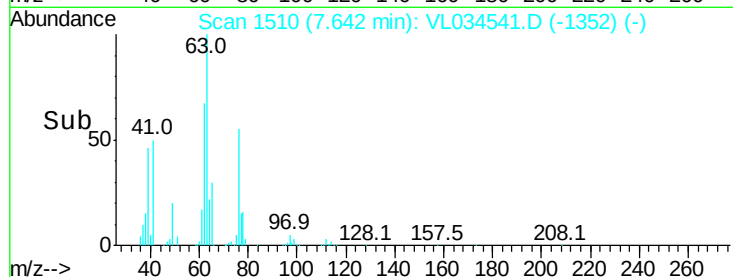
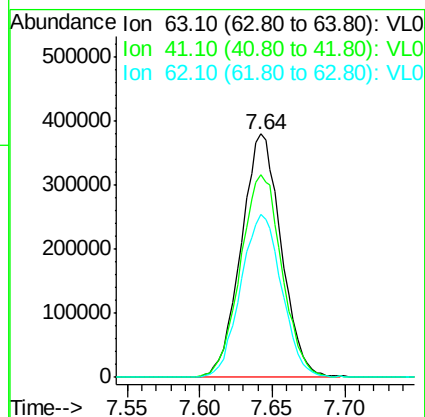
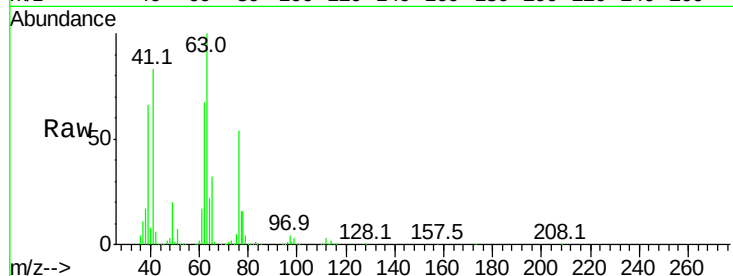
Tgt Ion: 63 Resp: 728784

Ion Ratio Lower Upper

63 100

41 83.1 66.1 99.1

62 67.1 54.9 82.3



#40

1,4-Dioxane

Concen: 9.746 ppbv

RT: 7.86 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Tgt Ion: 88 Resp: 287858

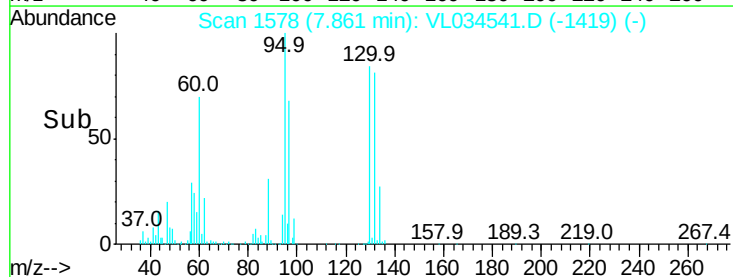
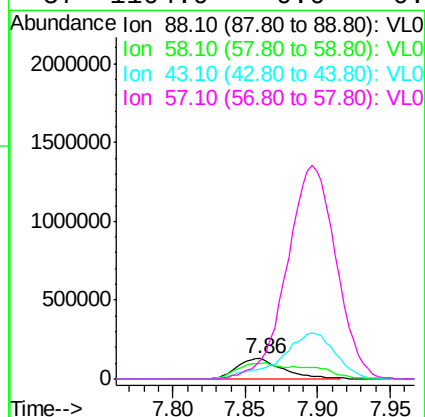
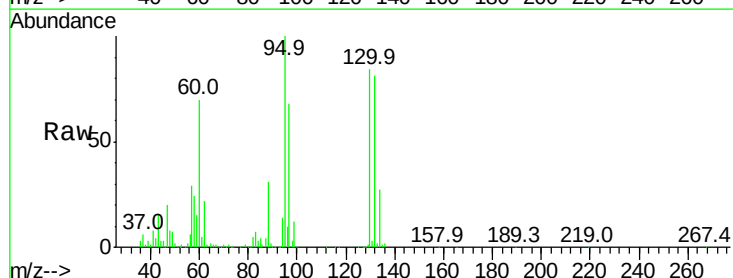
Ion Ratio Lower Upper

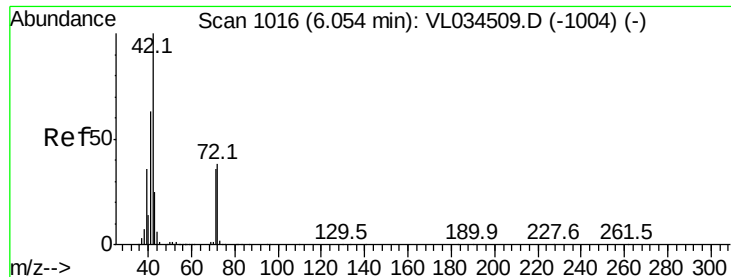
88 100

58 130.7 107.9 161.9

43 266.0 0.0 0.0#

57 1104.9 0.0 0.0#





#41

Tetrahydrofuran

Concen: 10.492 ppbv

RT: 6.06 min Scan# 1018

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

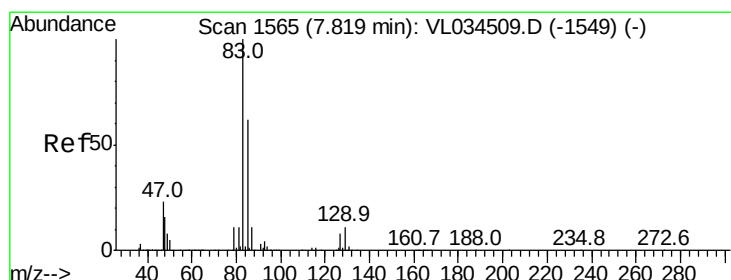
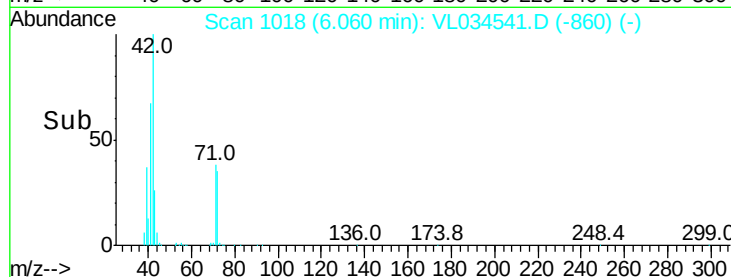
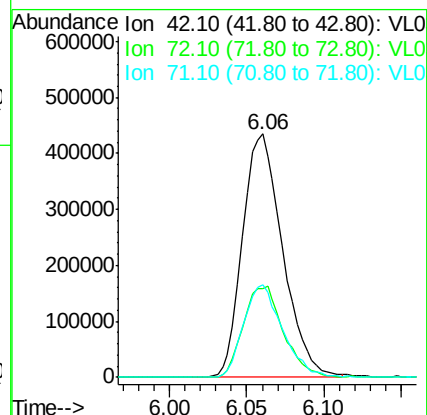
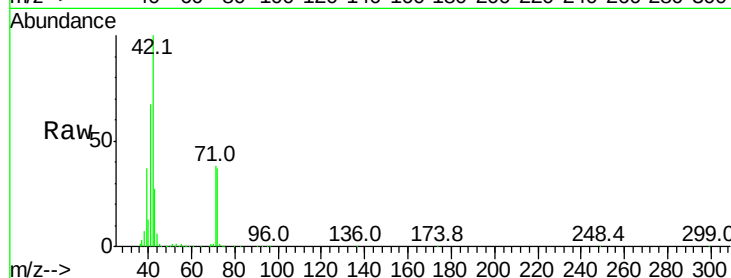
Tgt Ion: 42 Resp: 783119

Ion Ratio Lower Upper

42 100

72 37.6 30.9 46.3

71 37.0 28.9 43.3



#42

Bromodichloromethane

Concen: 9.560 ppbv

RT: 7.82 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

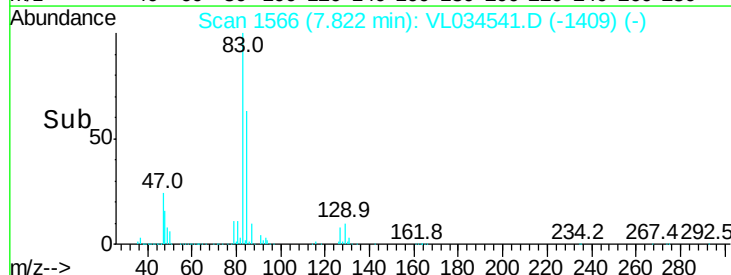
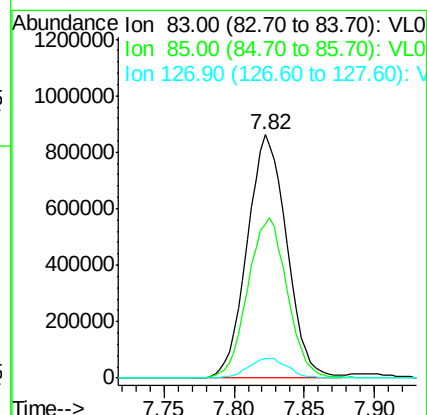
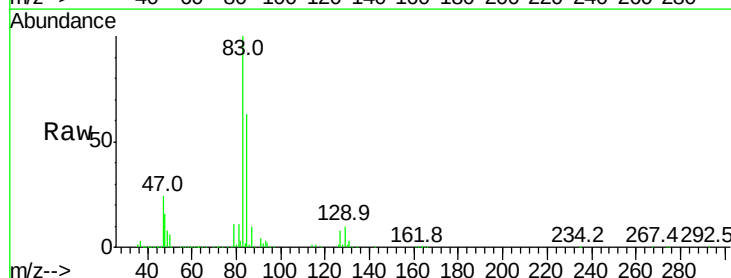
Tgt Ion: 83 Resp: 1695436

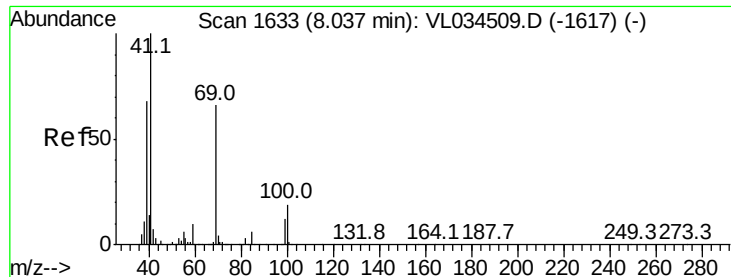
Ion Ratio Lower Upper

83 100

85 63.2 49.4 74.2

127 8.1 6.2 9.4





#43

Methyl Methacrylate

Concen: 10.474 ppbv

RT: 8.04 min Scan# 1635

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

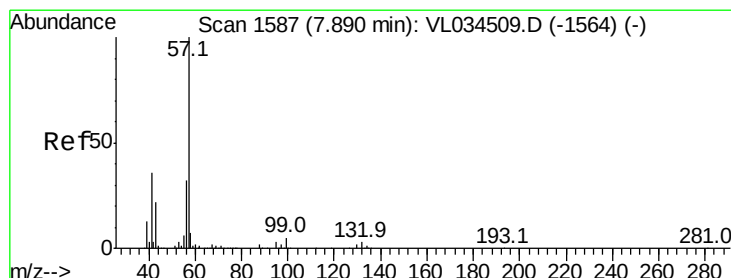
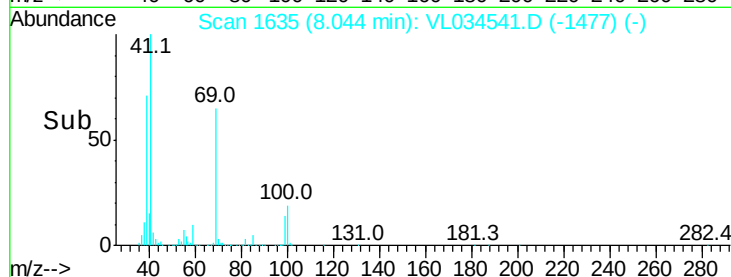
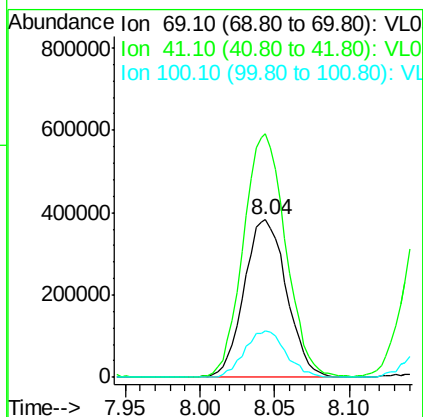
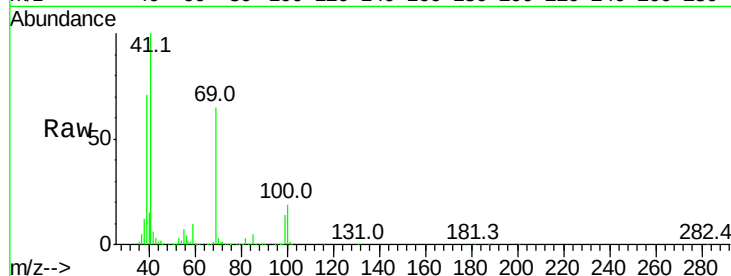
Tgt Ion: 69 Resp: 758269

Ion Ratio Lower Upper

69 100

41 153.4 124.0 186.0

100 28.8 23.1 34.7



#44

2,2,4-Trimethylpentane

Concen: 9.669 ppbv

RT: 7.90 min Scan# 1589

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

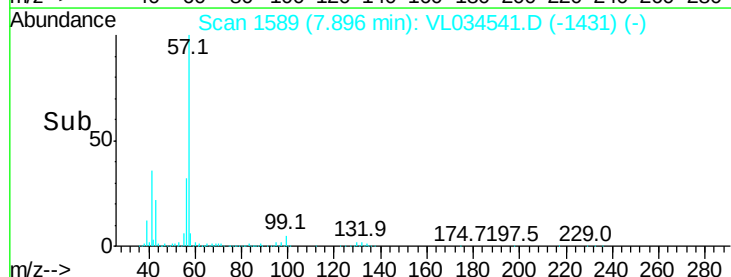
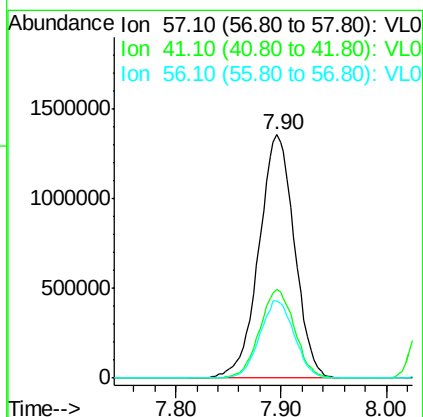
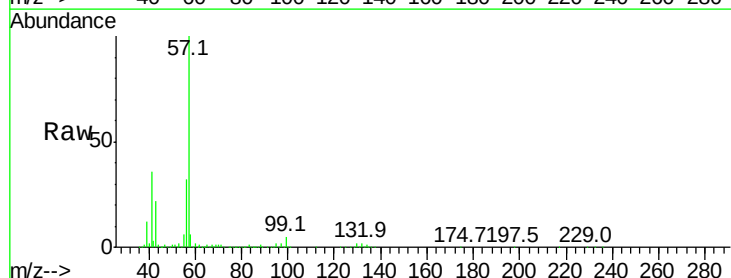
Tgt Ion: 57 Resp: 3174656

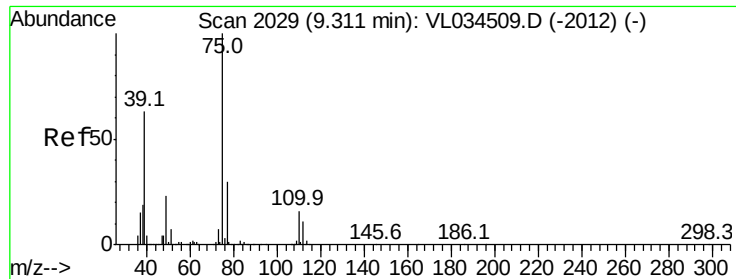
Ion Ratio Lower Upper

57 100

41 35.8 29.0 43.4

56 31.1 24.9 37.3





#45

t-1,3-Dichloropropene

Concen: 11.335 ppbv

RT: 9.32 min Scan# 2031

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

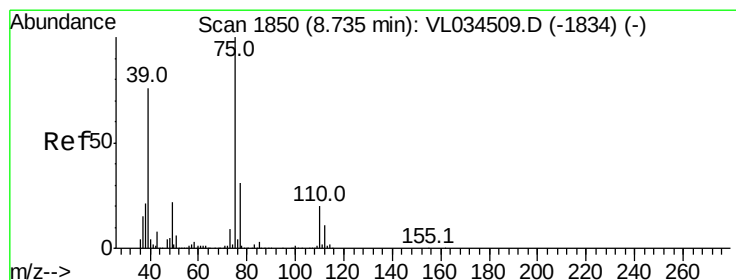
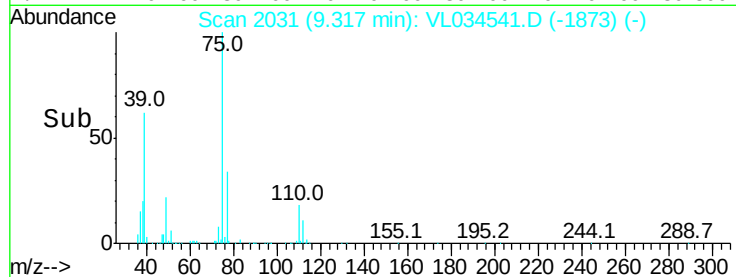
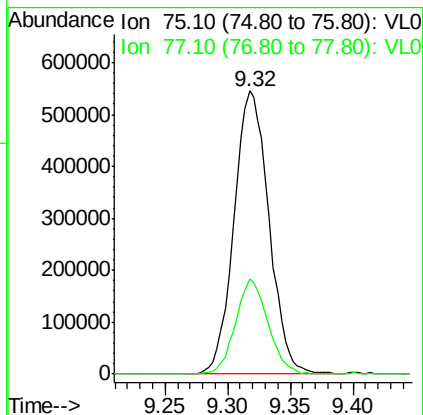
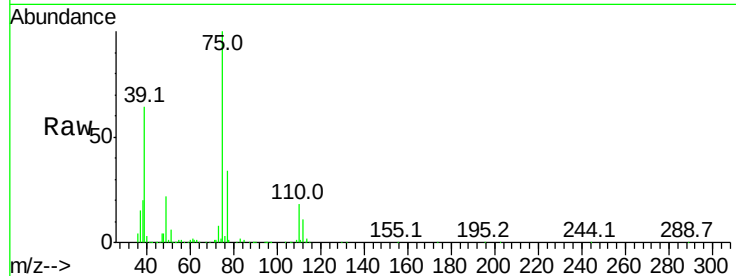
VSTDCCC010EC

Tgt Ion: 75 Resp: 1057107

Ion Ratio Lower Upper

75 100

77 33.6 24.2 36.2



#46

cis-1,3-Dichloropropene

Concen: 10.905 ppbv

RT: 8.74 min Scan# 1851

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

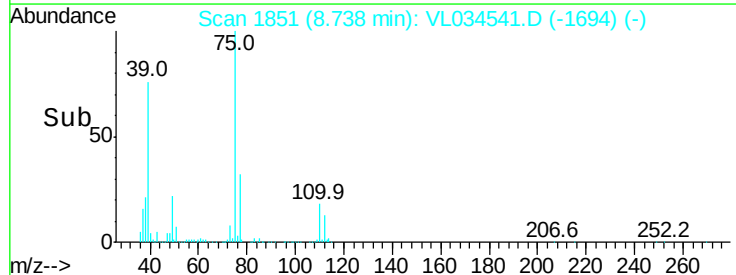
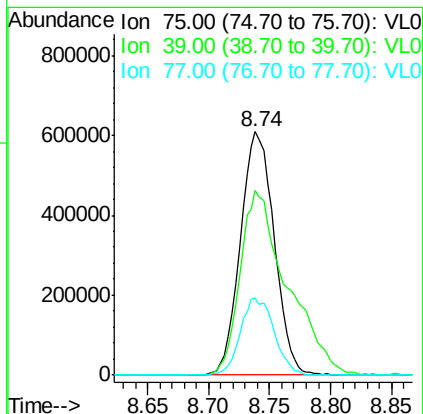
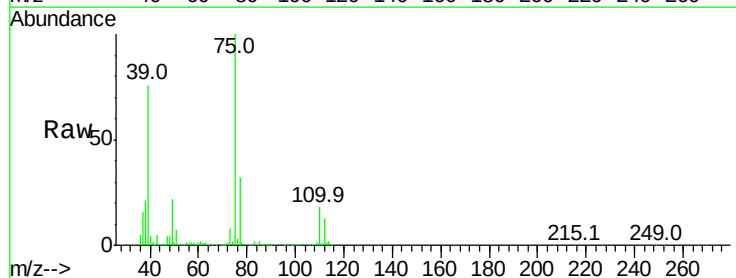
Tgt Ion: 75 Resp: 1162513

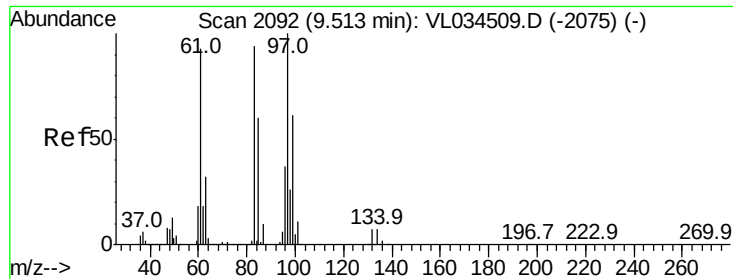
Ion Ratio Lower Upper

75 100

39 75.8 60.5 90.7

77 31.7 24.8 37.2





#47

1,1,2-Trichloroethane

Concen: 9.268 ppbv

RT: 9.52 min Scan# 2094

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 97 Resp: 745579

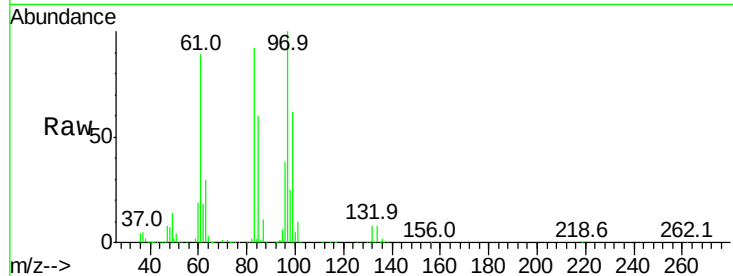
Ion Ratio Lower Upper

97 100

83 92.5 75.0 112.4

85 59.6 48.2 72.4

99 61.9 48.5 72.7

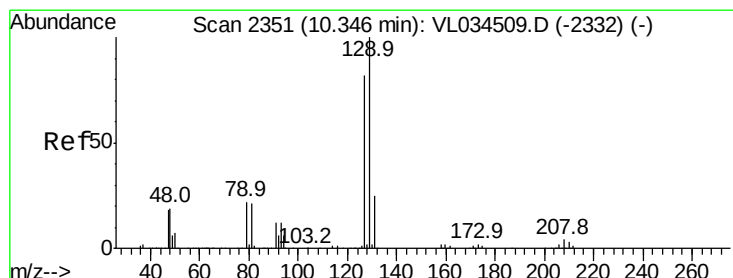
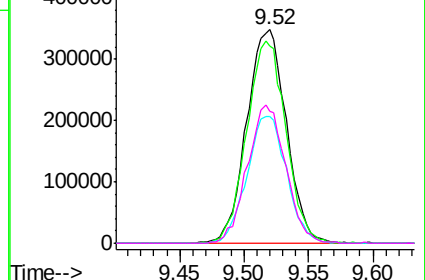
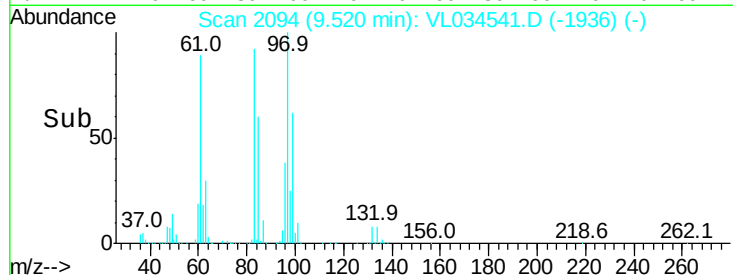


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 10.041 ppbv

RT: 10.35 min Scan# 2352

Delta R.T. 0.00 min

Lab File: VL034541.D

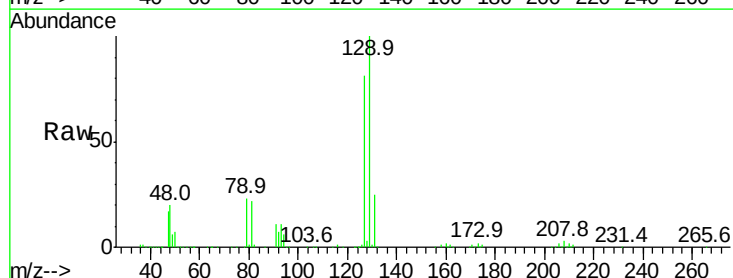
Acq: 31 Dec 2019 10:20

Tgt Ion: 129 Resp: 1400395

Ion Ratio Lower Upper

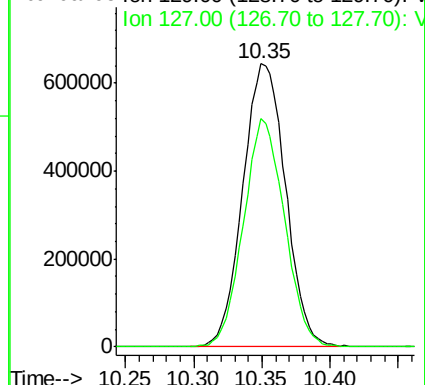
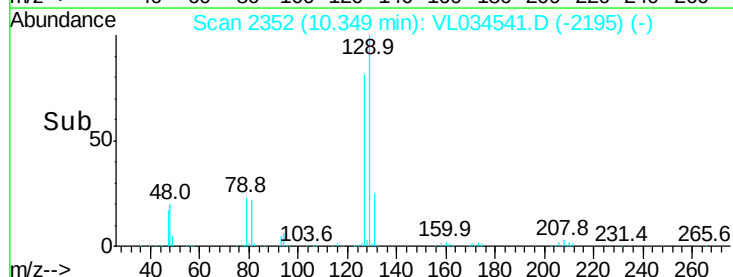
129 100

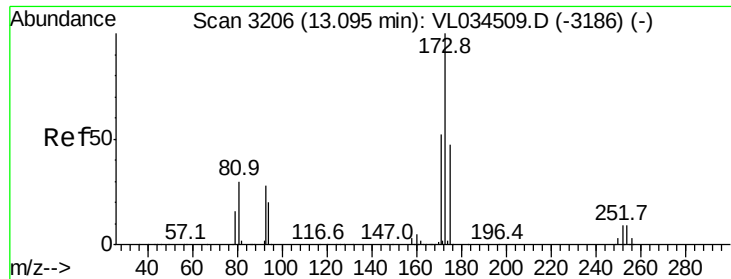
127 77.8 39.4 118.2



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 9.515 ppbv

RT: 13.10 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

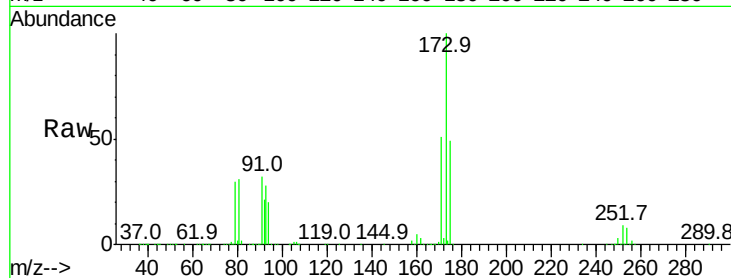
Tgt Ion:173 Resp: 1201345

Ion Ratio Lower Upper

173 100

175 50.0 39.8 59.8

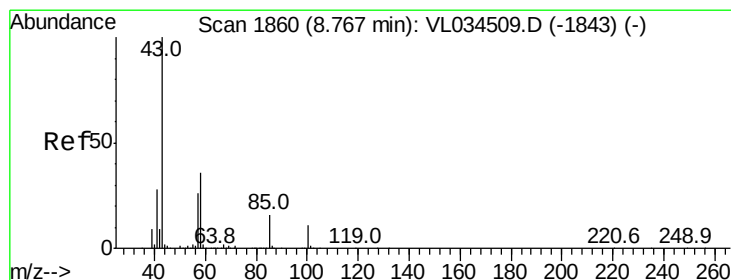
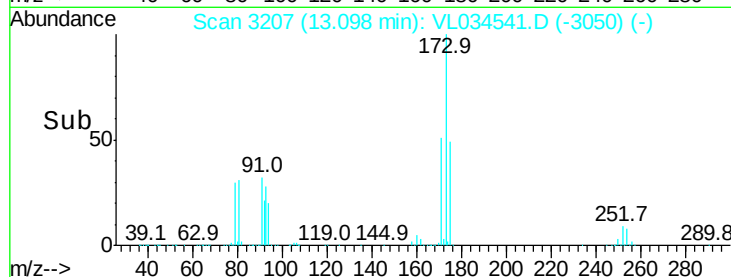
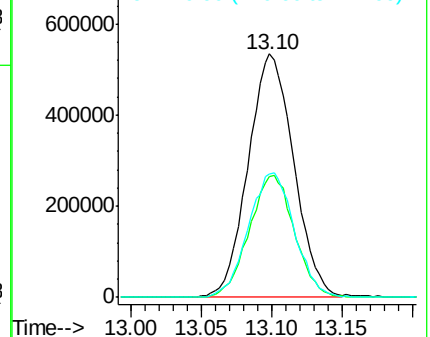
171 52.1 42.1 63.1



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.816 ppbv

RT: 8.77 min Scan# 1862

Delta R.T. 0.01 min

Lab File: VL034541.D

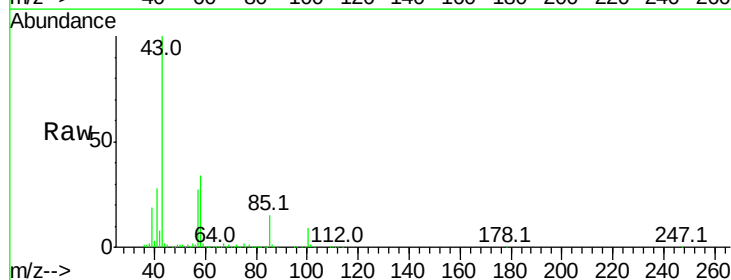
Acq: 31 Dec 2019 10:20

Tgt Ion: 43 Resp: 2073296

Ion Ratio Lower Upper

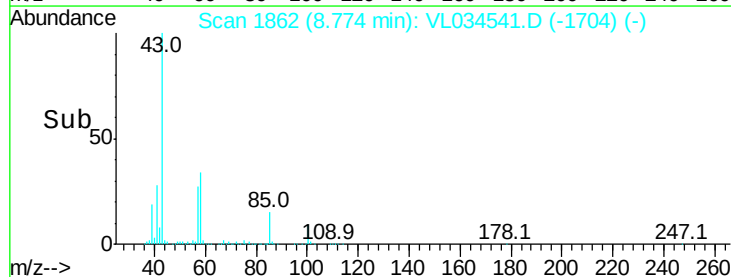
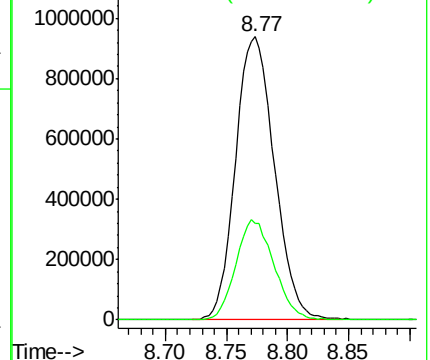
43 100

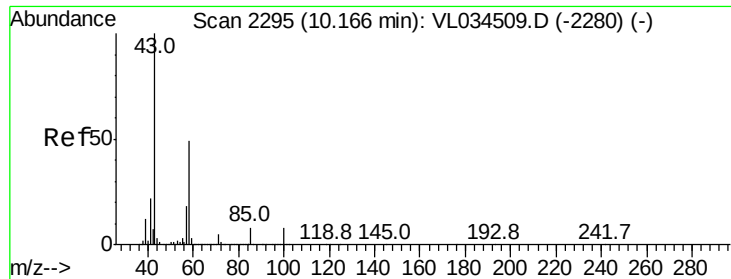
58 34.8 28.2 42.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

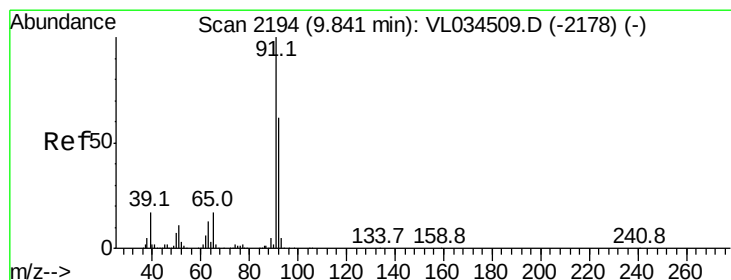
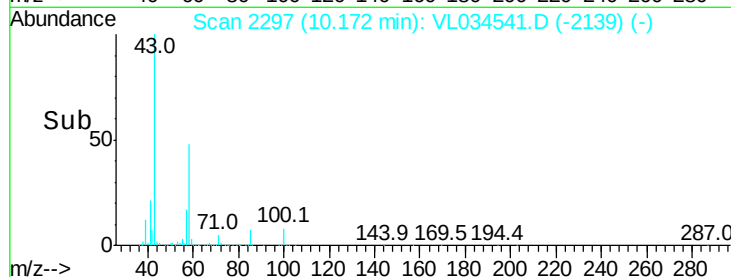
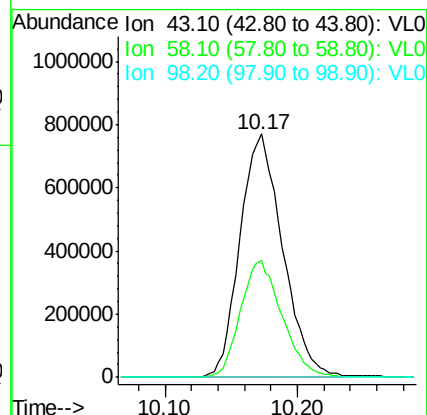
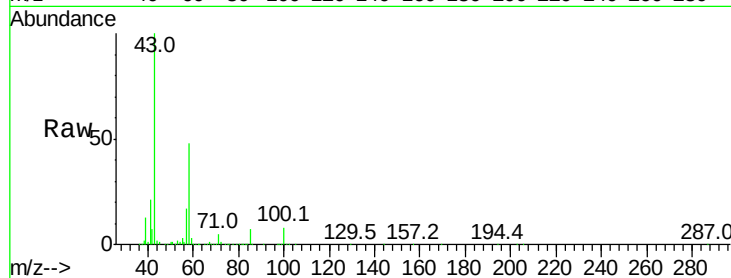




#51
2-Hexanone
Concen: 10.082 ppbv
RT: 10.17 min Scan# 2297
Delta R.T. 0.01 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

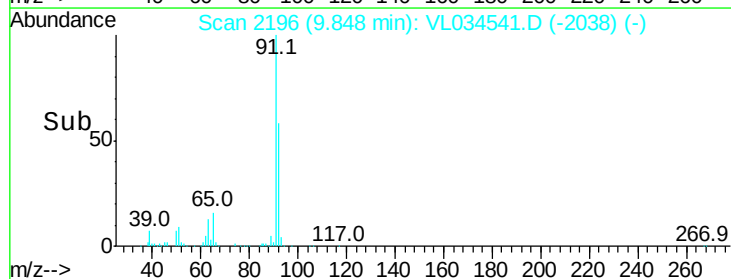
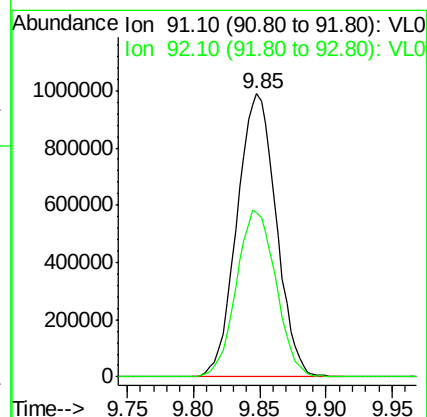
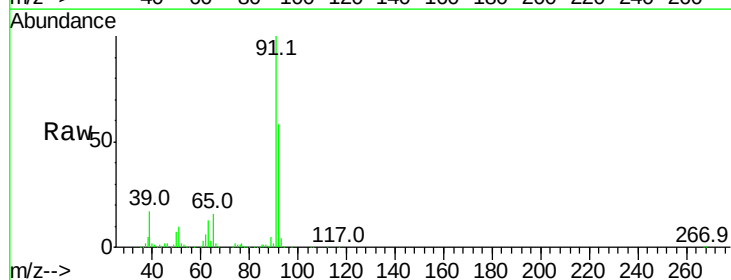
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

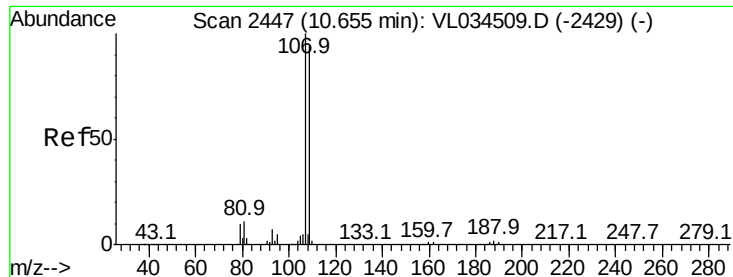
Tgt Ion: 43 Resp: 1718951
Ion Ratio Lower Upper
43 100
58 47.0 37.4 56.0
98 0.2 0.2 0.2



#53
Toluene
Concen: 10.377 ppbv
RT: 9.85 min Scan# 2196
Delta R.T. 0.01 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Tgt Ion: 91 Resp: 2023492
Ion Ratio Lower Upper
91 100
92 59.7 48.4 72.6





#54

1,2-Dibromoethane

Concen: 9.613 ppbv

RT: 10.66 min Scan# 2448

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

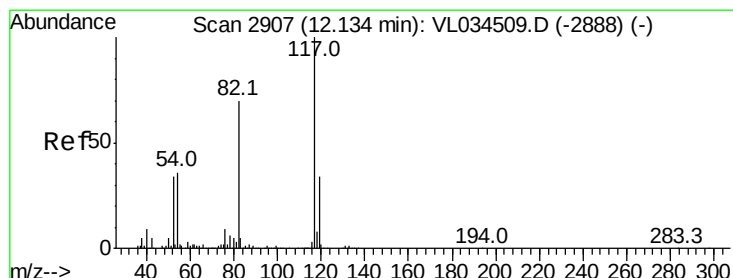
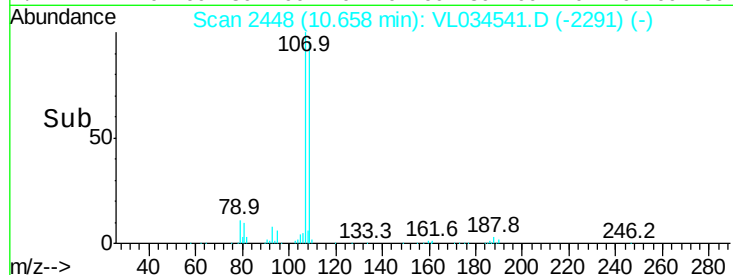
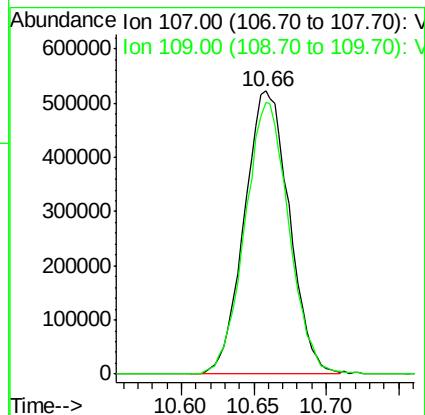
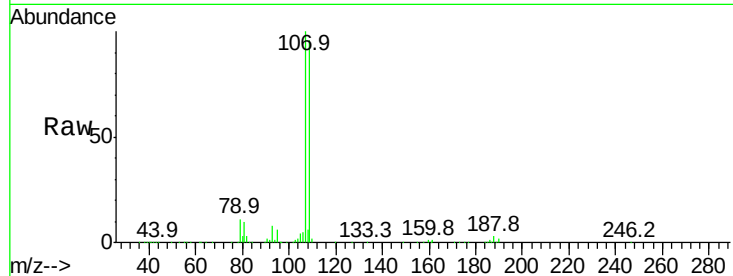
VSTDCCC010EC

Tgt Ion:107 Resp: 1125441

Ion Ratio Lower Upper

107 100

109 96.0 75.5 113.3



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.14 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

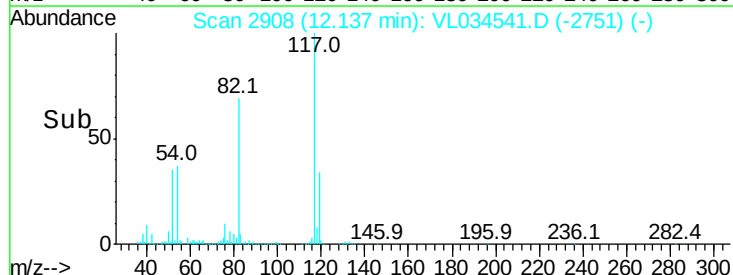
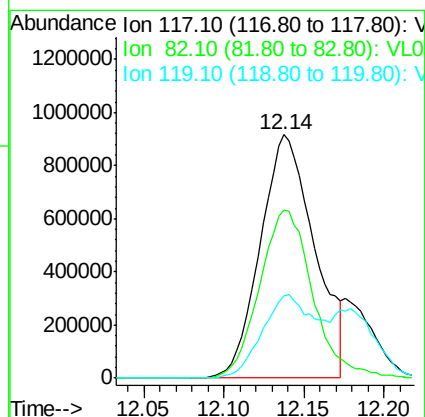
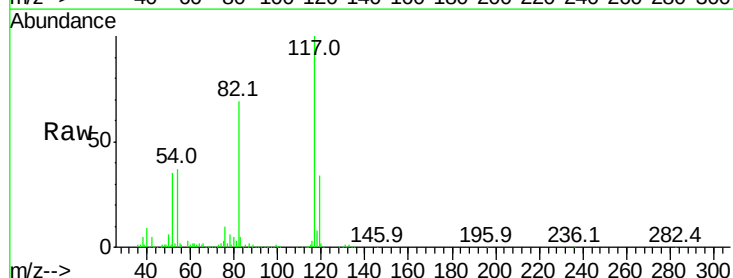
Tgt Ion:117 Resp: 2152854

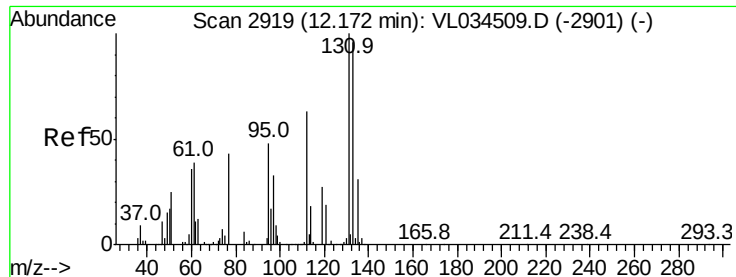
Ion Ratio Lower Upper

117 100

82 67.9 56.2 84.4

119 35.2 27.1 40.7





#56

1,1,1,2-Tetrachloroethane

Concen: 8.849 ppbv

RT: 12.18 min Scan# 2921

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

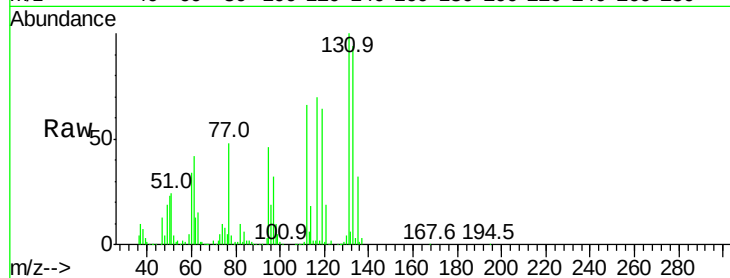
Tgt Ion:131 Resp: 919700

Ion Ratio Lower Upper

131 100

133 95.0 76.2 114.2

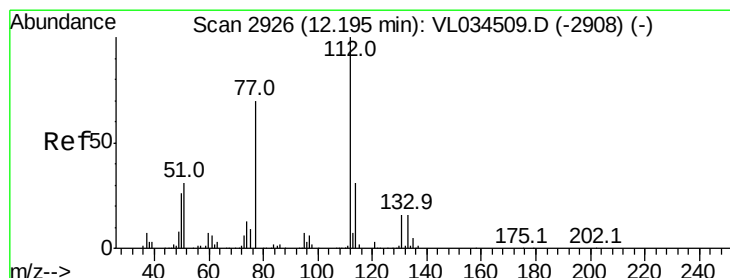
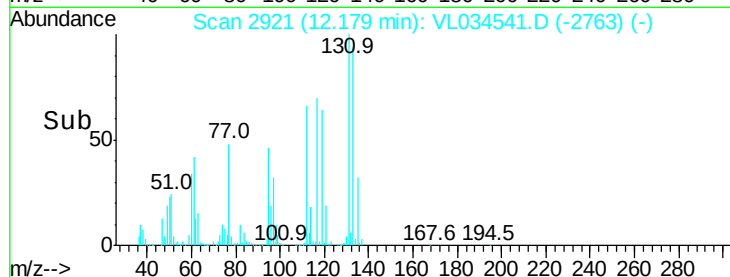
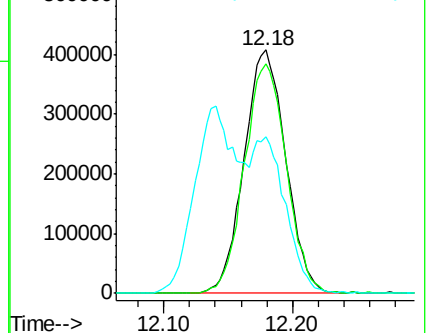
119 50.5 47.1 70.7



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#57

Chlorobenzene

Concen: 8.785 ppbv

RT: 12.20 min Scan# 2927

Delta R.T. 0.00 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

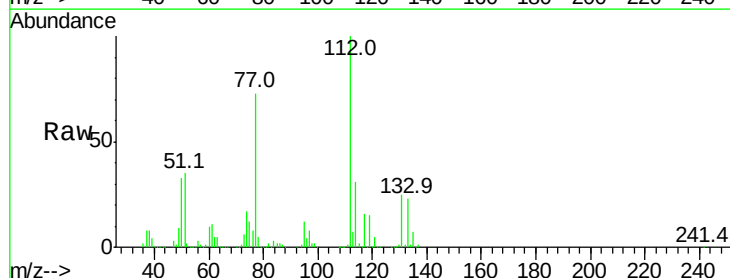
Tgt Ion:112 Resp: 1560412

Ion Ratio Lower Upper

112 100

77 72.3 57.4 86.0

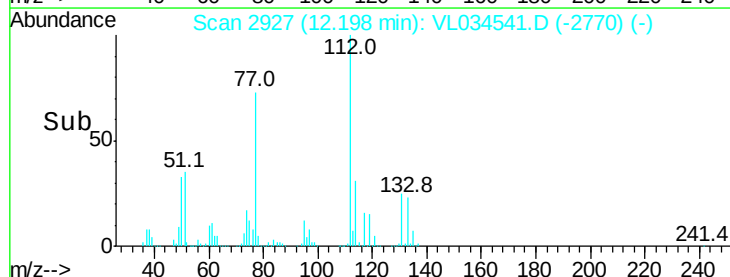
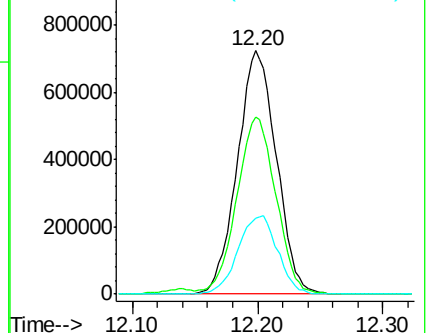
114 31.1 28.4 34.8

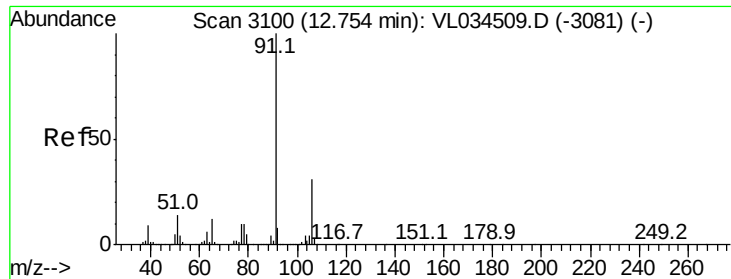


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): V

Ion 114.10 (113.80 to 114.80): V





#58

Ethyl Benzene

Concen: 9.562 ppbv

RT: 12.76 min Scan# 3103

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

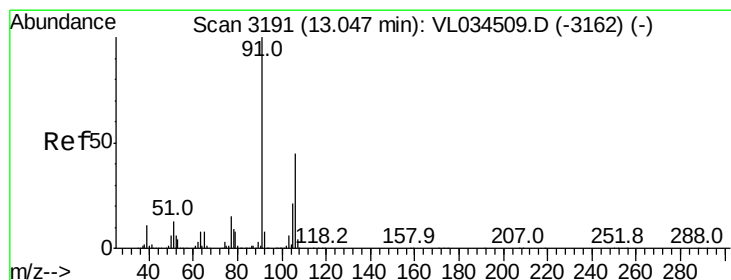
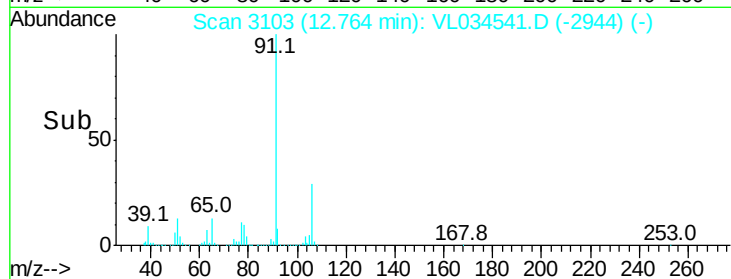
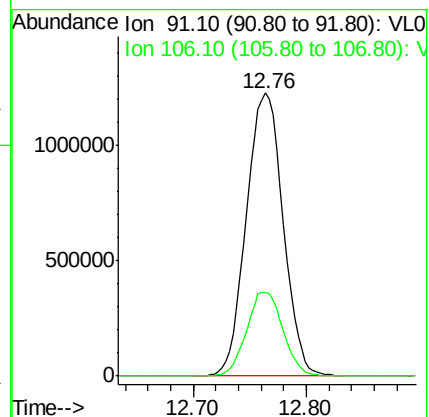
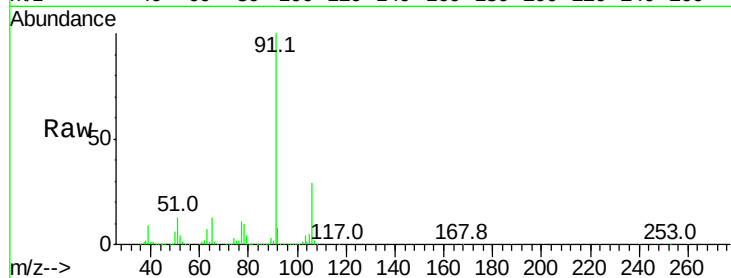
VSTDCCC010EC

Tgt Ion: 91 Resp: 2776302

Ion Ratio Lower Upper

91 100

106 29.4 24.6 36.8



#59

m/p-Xylene

Concen: 7.013 ppbv

RT: 13.05 min Scan# 3192

Delta R.T. 0.00 min

Lab File: VL034541.D

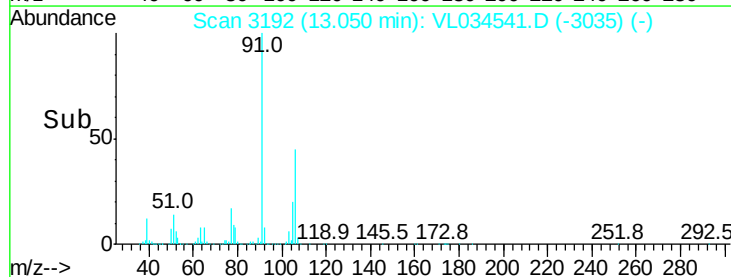
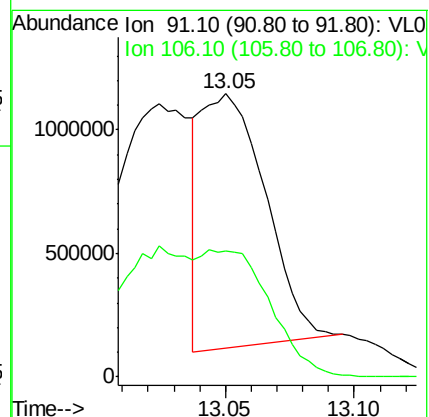
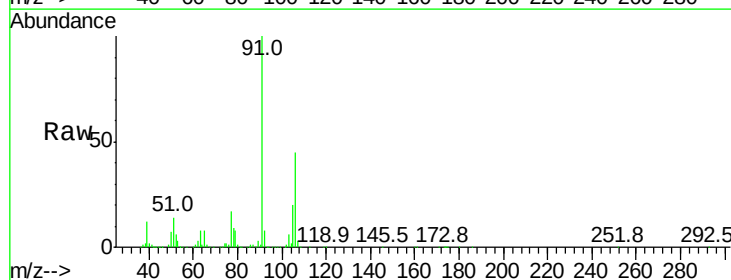
Acq: 31 Dec 2019 10:20

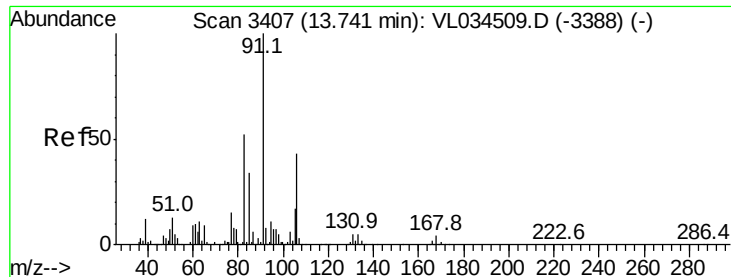
Tgt Ion: 91 Resp: 1780630

Ion Ratio Lower Upper

91 100

106 0.0 35.6 53.4#

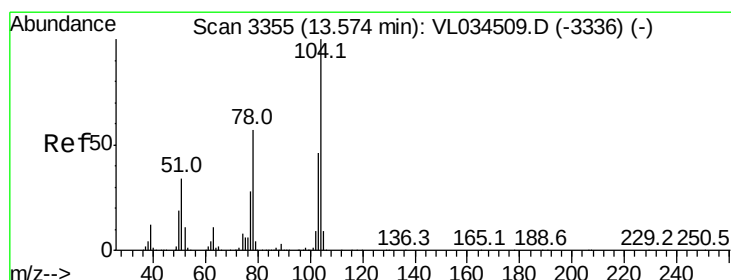
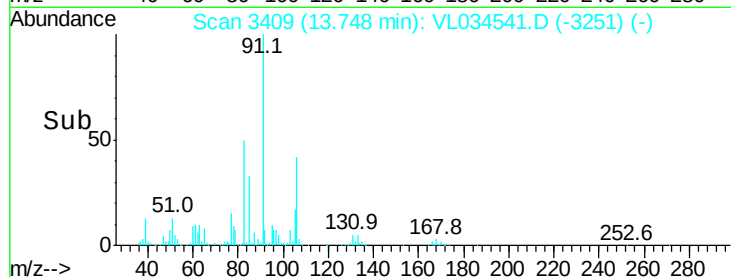
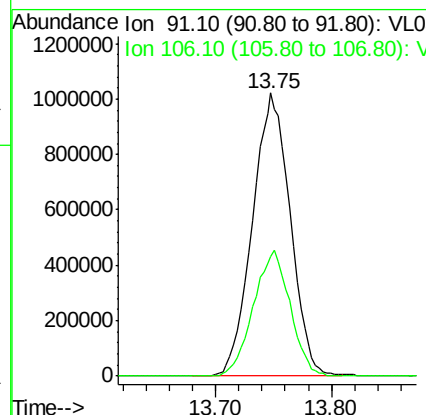
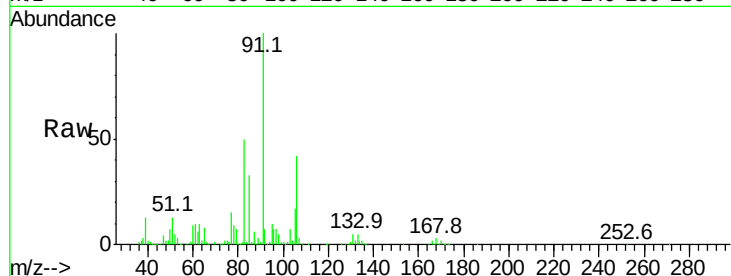




#60
o-Xylene
Concen: 9.066 ppbv
RT: 13.75 min Scan# 3409
Delta R.T. 0.01 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

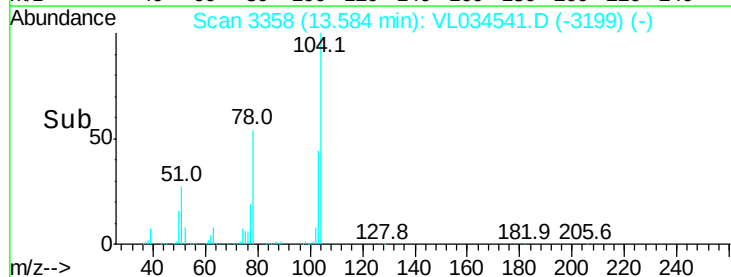
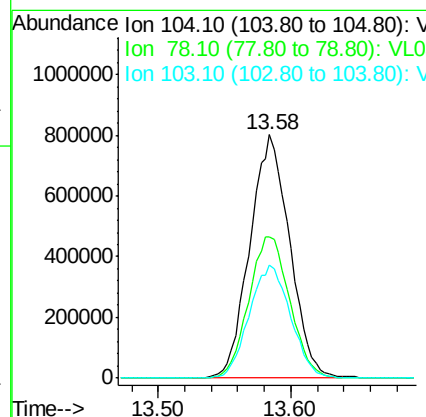
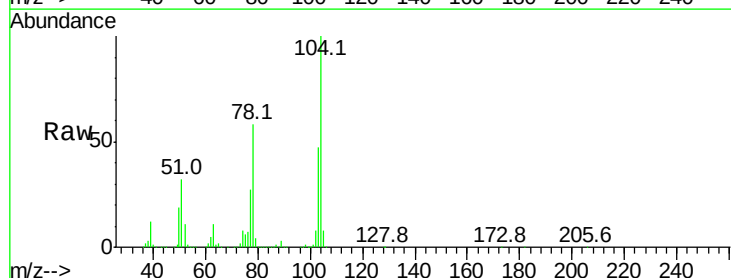
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

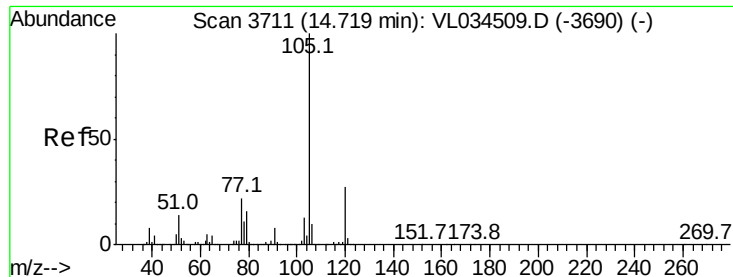
Tgt Ion: 91 Resp: 2309734
Ion Ratio Lower Upper
91 100
106 43.3 21.4 64.3



#61
Styrene
Concen: 9.599 ppbv
RT: 13.58 min Scan# 3358
Delta R.T. 0.01 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Tgt Ion: 104 Resp: 1671989
Ion Ratio Lower Upper
104 100
78 60.3 47.7 71.5
103 48.2 38.6 58.0





#62

Isopropylbenzene

Concen: 8.995 ppbv

RT: 14.73 min Scan# 3713

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

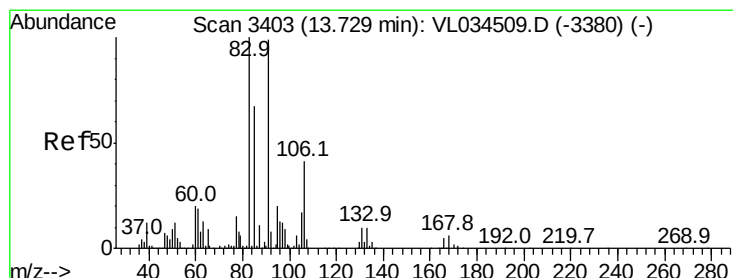
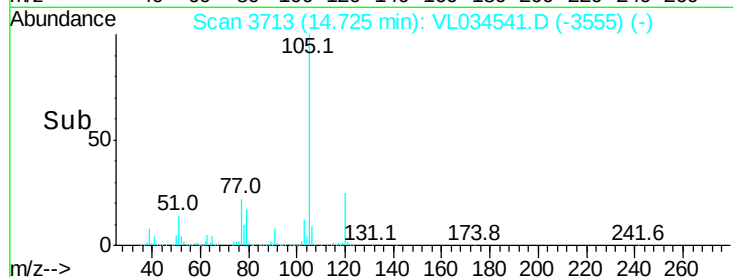
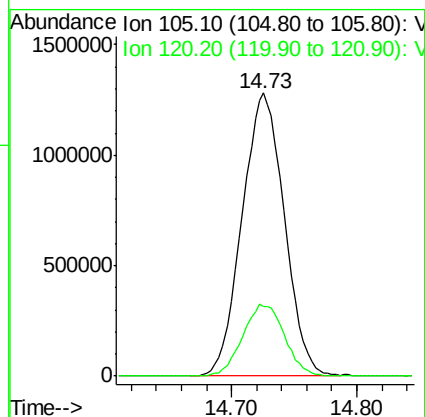
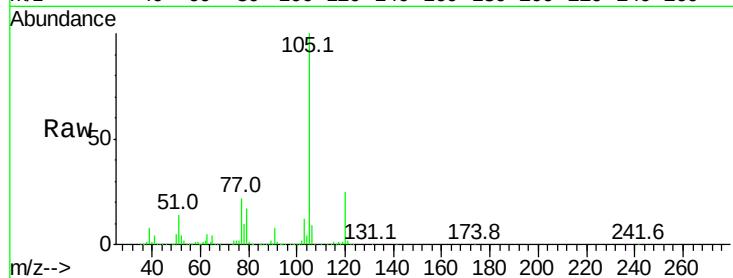
VSTDCCC010EC

Tgt Ion:105 Resp: 2997788

Ion Ratio Lower Upper

105 100

120 25.2 20.6 30.8



#63

1,1,2,2-Tetrachloroethane

Concen: 7.825 ppbv

RT: 13.74 min Scan# 3405

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

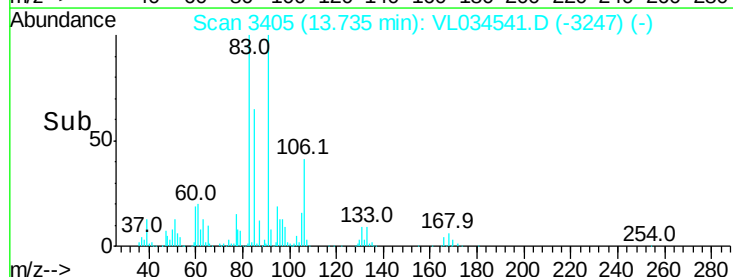
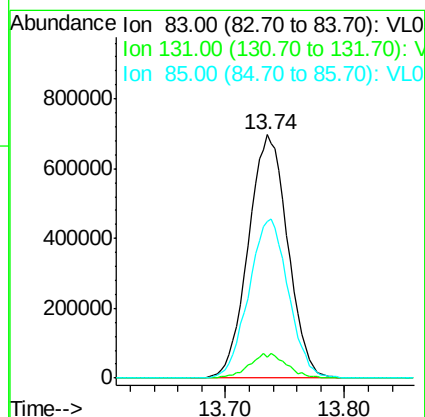
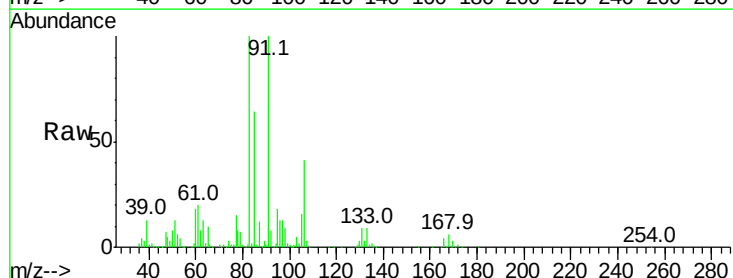
Tgt Ion: 83 Resp: 1599265

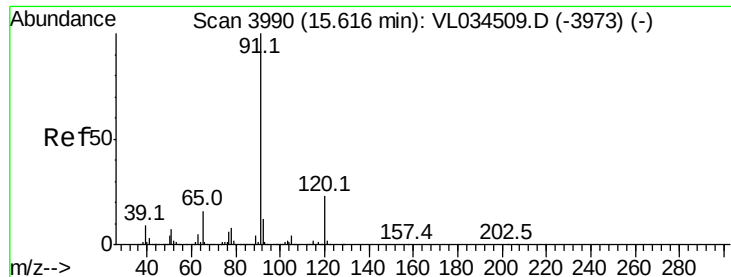
Ion Ratio Lower Upper

83 100

131 9.6 4.8 14.4

85 65.8 32.5 97.4





#64

n-propylbenzene

Concen: 9.123 ppbv

RT: 15.62 min Scan# 3992

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

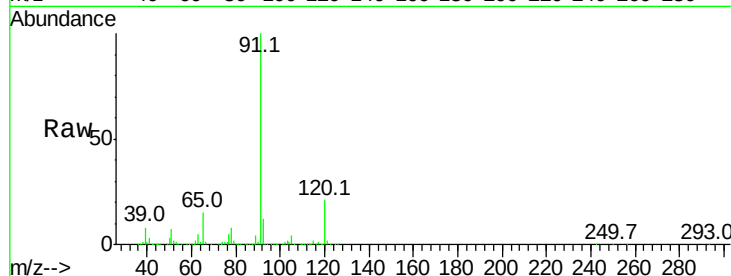
VSTDCCC010EC

Tgt Ion:120 Resp: 776299

Ion Ratio Lower Upper

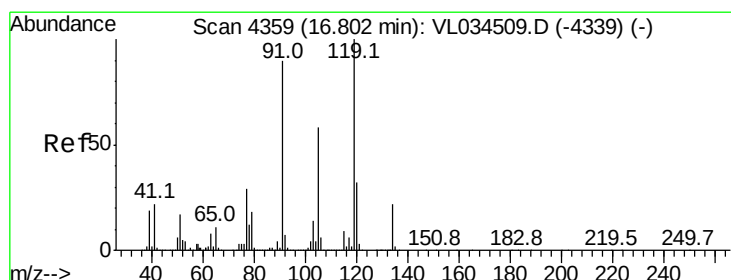
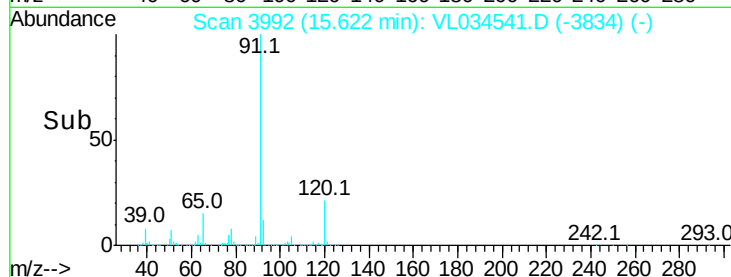
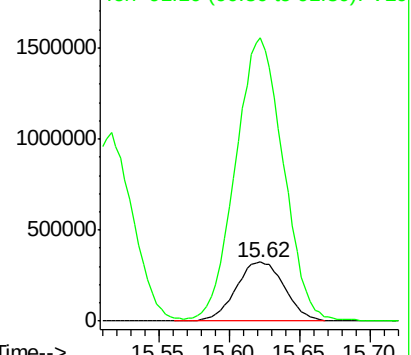
120 100

91 475.4 375.6 563.4



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 9.128 ppbv

RT: 16.81 min Scan# 4362

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

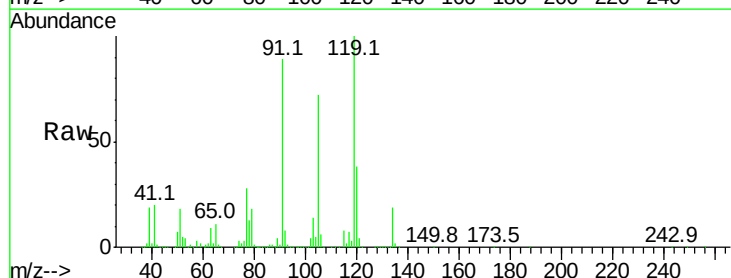
Tgt Ion:119 Resp: 2748166

Ion Ratio Lower Upper

119 100

91 90.1 72.0 108.0

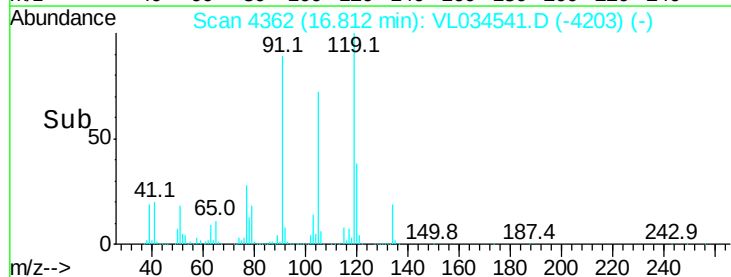
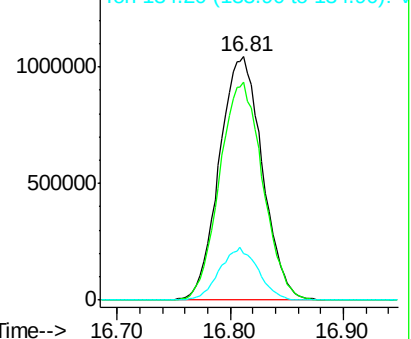
134 19.6 16.1 24.1

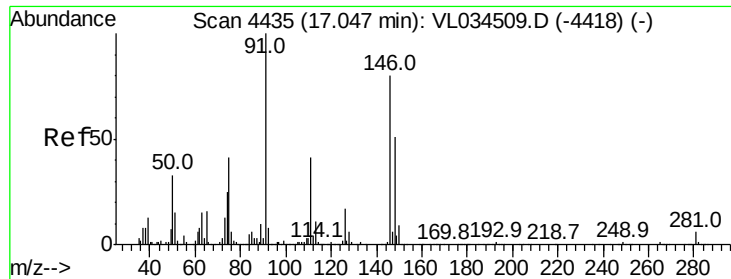


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

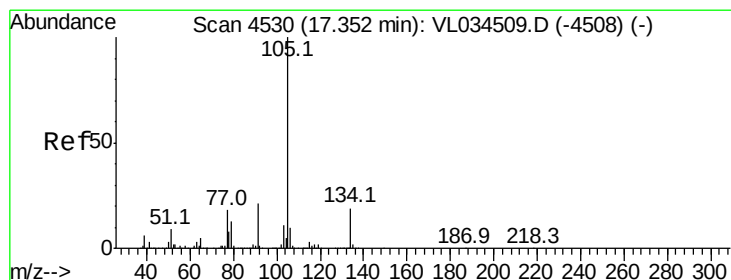
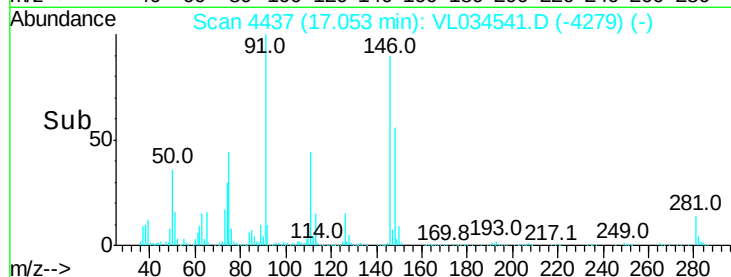
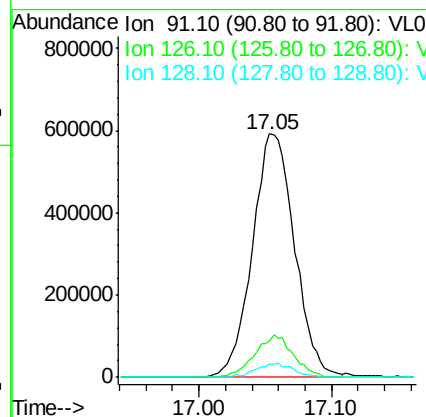
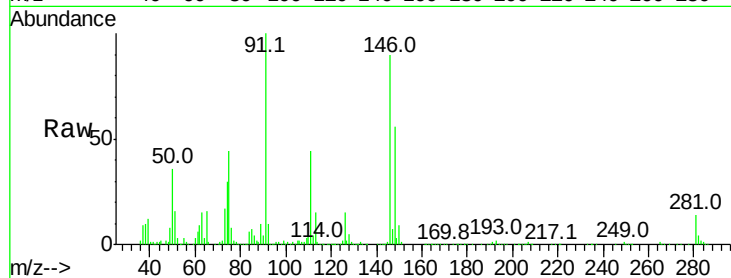




#66
Benzyl Chloride
Concen: 9.860 ppbv
RT: 17.05 min Scan# 4437
Delta R.T. 0.01 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

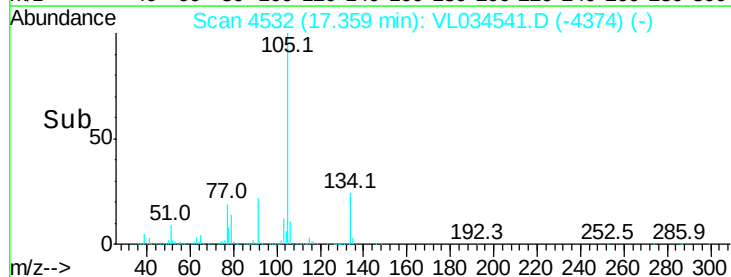
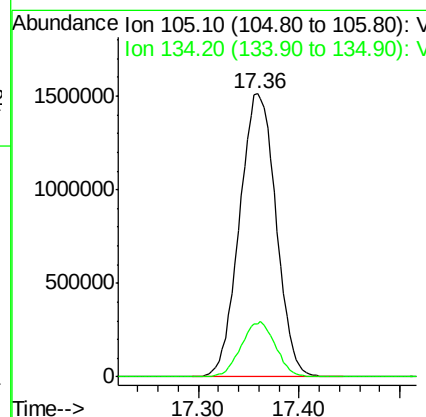
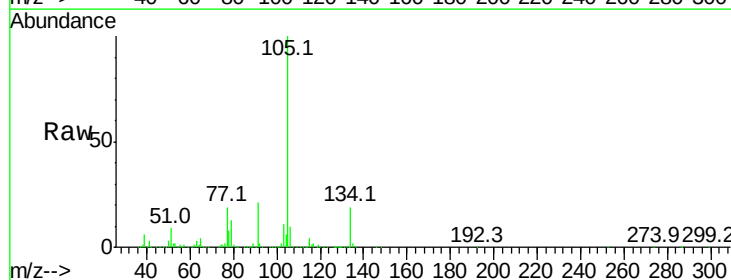
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

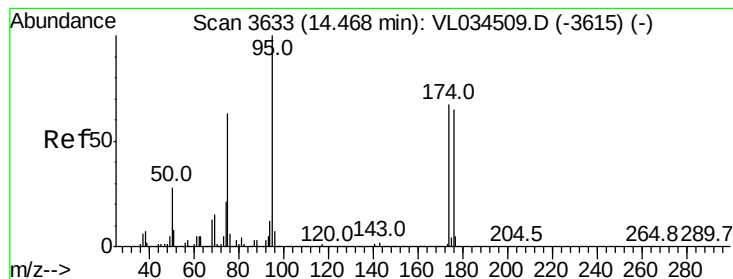
Tgt Ion: 91 Resp: 1301053
Ion Ratio Lower Upper
91 100
126 16.2 13.1 19.7
128 5.3 4.2 6.4



#67
sec-Butylbenzene
Concen: 8.966 ppbv
RT: 17.36 min Scan# 4532
Delta R.T. 0.01 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Tgt Ion: 105 Resp: 3790917
Ion Ratio Lower Upper
105 100
134 18.5 15.1 22.7





#68

1-Bromo-4-Fluorobenzene

Concen: 9.565 ppbv

RT: 14.48 min Scan# 3636

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

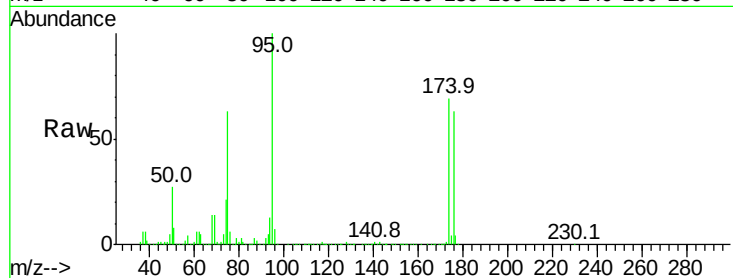
Tgt Ion: 95 Resp: 1718287

Ion Ratio Lower Upper

95 100

174 66.0 52.4 78.6

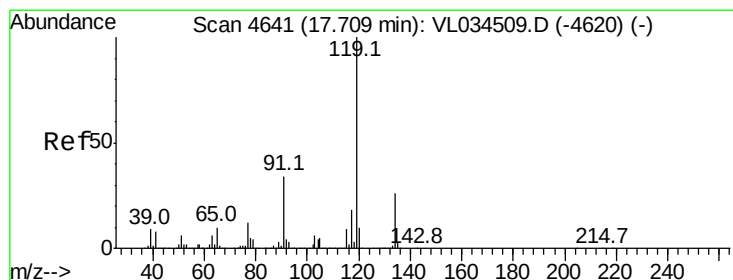
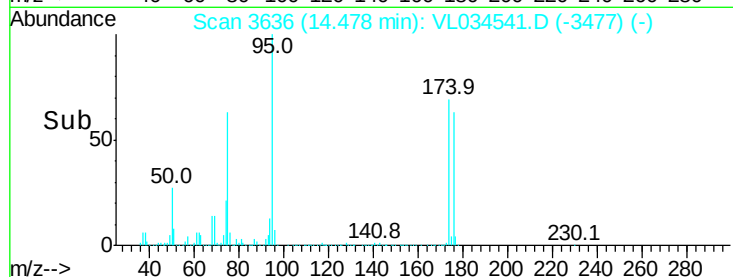
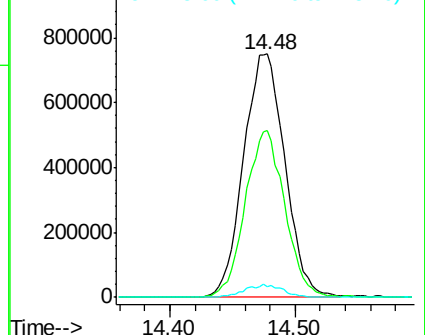
175 4.9 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL034509.D (-3615) (-)

Ion 174.00 (173.70 to 174.70): VL034509.D (-3615) (-)

Ion 175.00 (174.70 to 175.70): VL034509.D (-3615) (-)



#69

p-Isopropyltoluene

Concen: 9.411 ppbv

RT: 17.72 min Scan# 4643

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

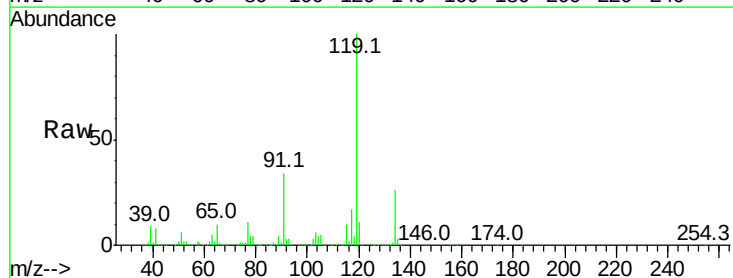
Tgt Ion: 119 Resp: 3227159

Ion Ratio Lower Upper

119 100

134 25.7 20.7 31.1

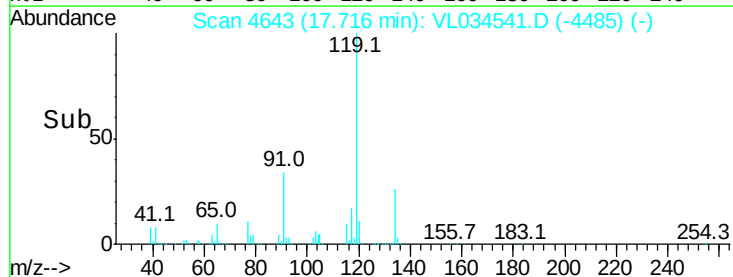
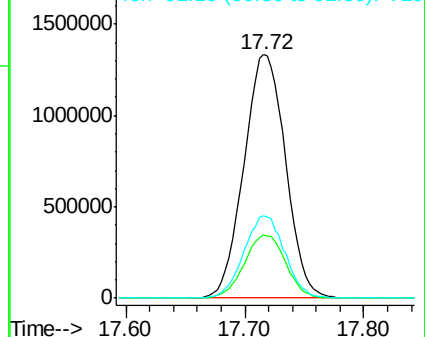
91 33.2 26.6 39.8

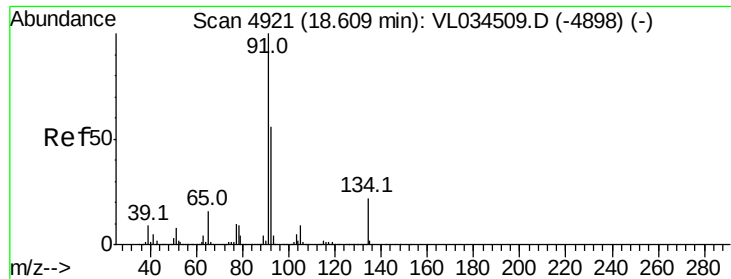


Abundance Ion 119.10 (118.80 to 119.80): VL034509.D (-4620) (-)

Ion 134.20 (133.90 to 134.90): VL034509.D (-4620) (-)

Ion 91.10 (90.80 to 91.80): VL034509.D (-4620) (-)

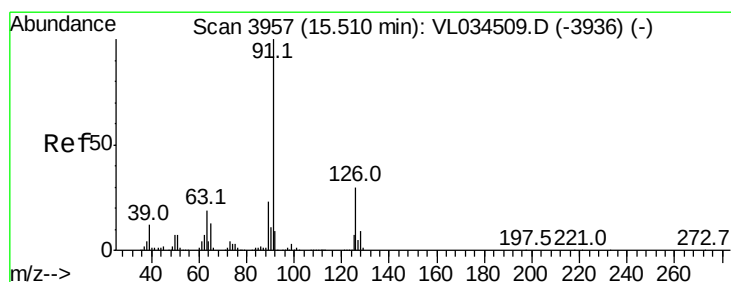
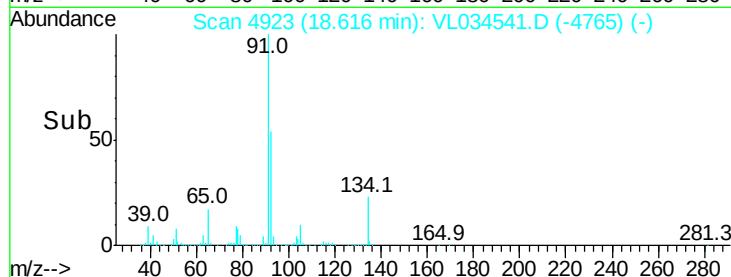
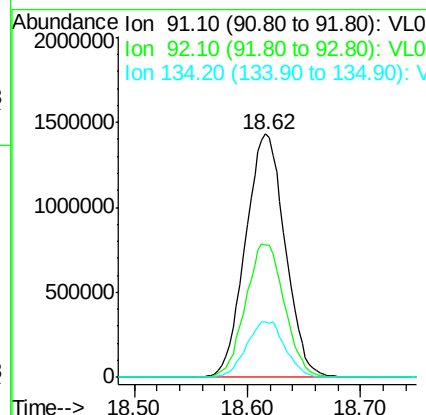
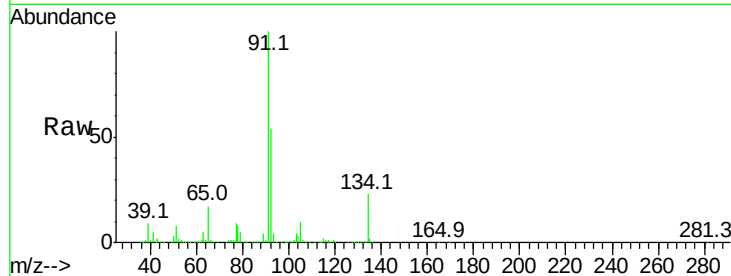




#70
n-Butylbenzene
Concen: 9.392 ppbv
RT: 18.62 min Scan# 4923
Delta R.T. 0.01 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

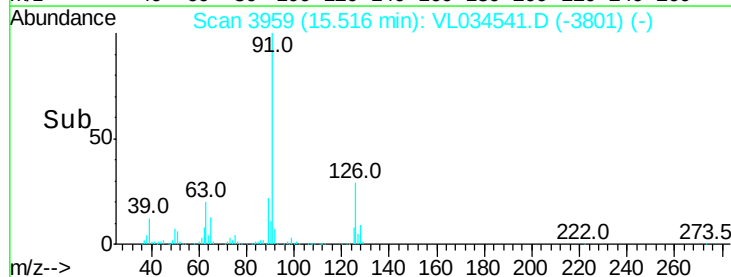
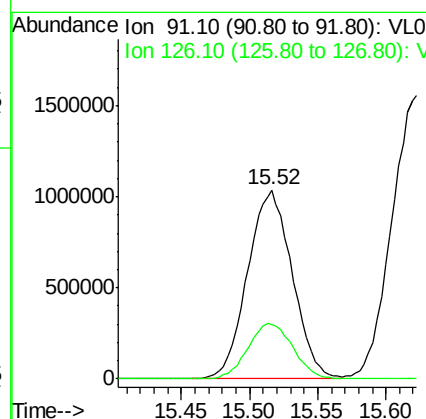
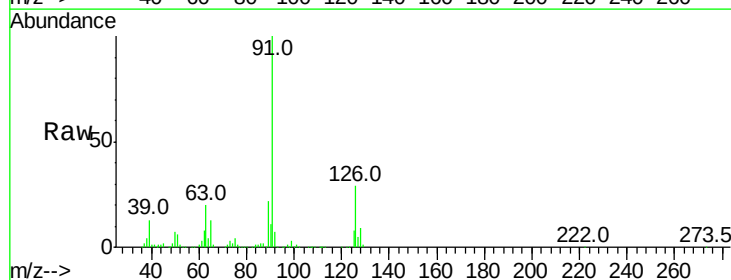
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

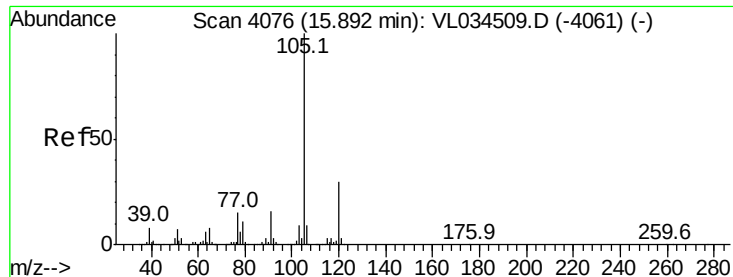
Tgt Ion: 91 Resp: 3475108
Ion Ratio Lower Upper
91 100
92 54.1 43.8 65.6
134 22.4 18.0 27.0



#71
2-Chlorotoluene
Concen: 9.076 ppbv
RT: 15.52 min Scan# 3959
Delta R.T. 0.01 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Tgt Ion: 91 Resp: 2348664
Ion Ratio Lower Upper
91 100
126 29.8 12.0 47.8





#72

4-Ethyltoluene

Concen: 9.247 ppbv

RT: 15.90 min Scan# 4078

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion:105 Resp: 2636214

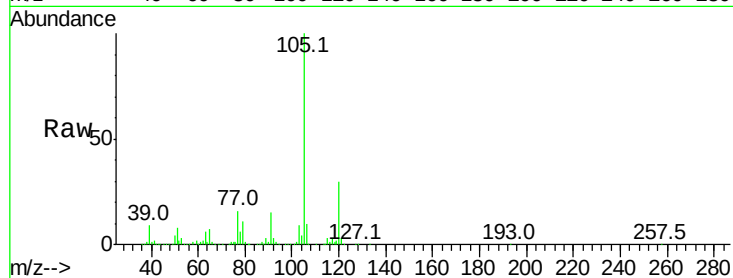
Ion Ratio Lower Upper

105 100

120 29.1 23.7 35.5

91 14.3 11.5 17.3

77 15.9 12.7 19.1

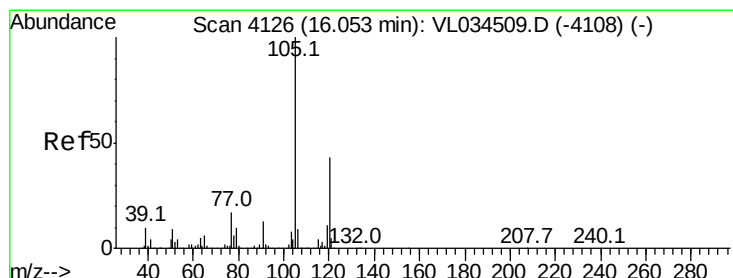
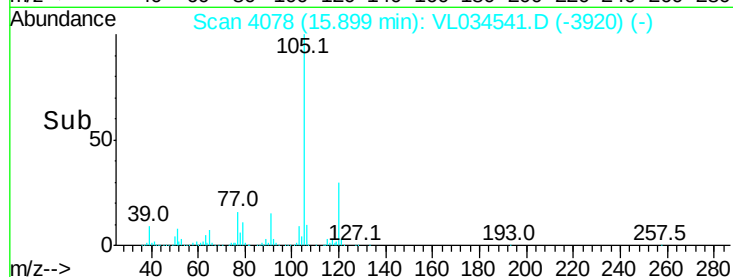
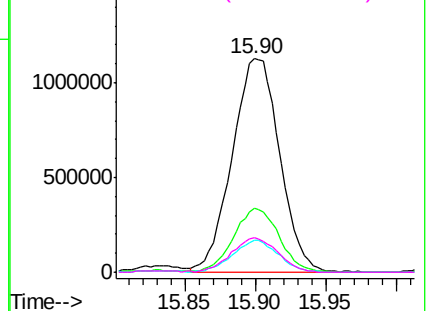


Abundance Ion 105.10 (104.80 to 105.80): V

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



#73

1,3,5-Trimethylbenzene

Concen: 9.147 ppbv

RT: 16.06 min Scan# 4128

Delta R.T. 0.01 min

Lab File: VL034541.D

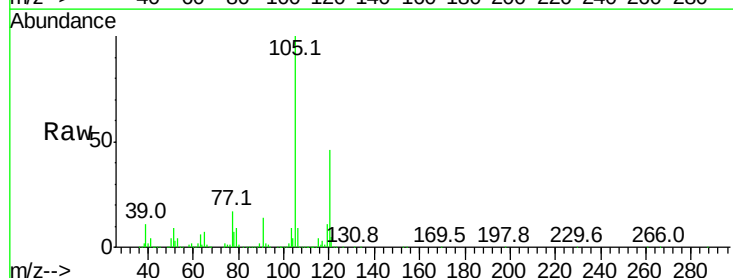
Acq: 31 Dec 2019 10:20

Tgt Ion:105 Resp: 2558353

Ion Ratio Lower Upper

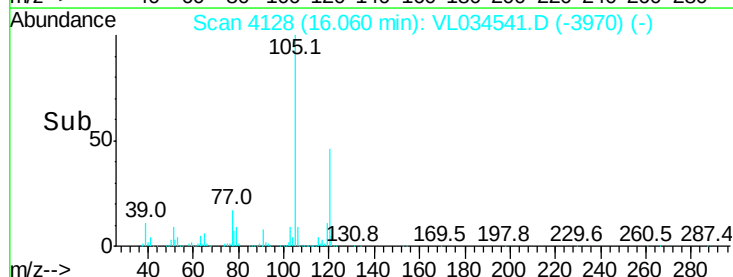
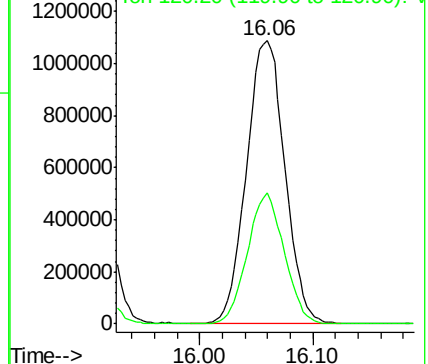
105 100

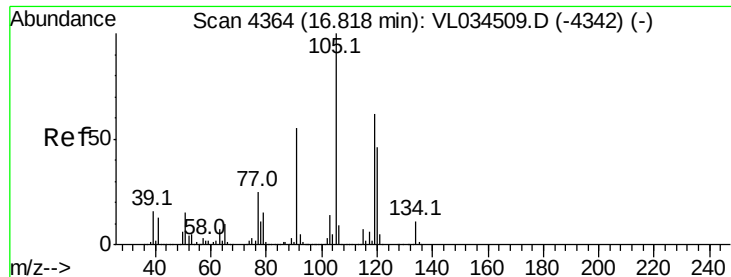
120 46.5 34.6 52.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

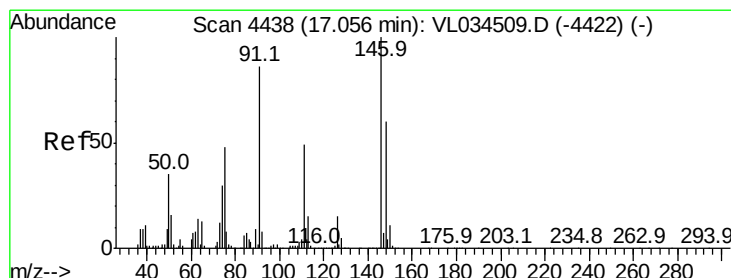
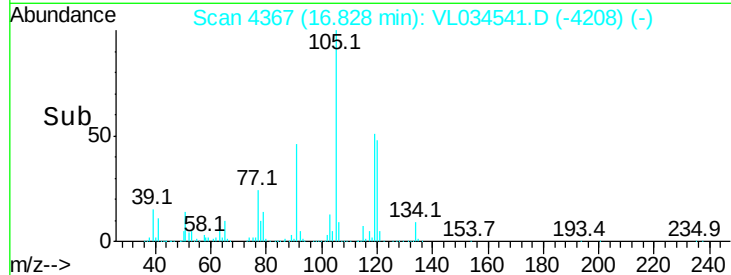
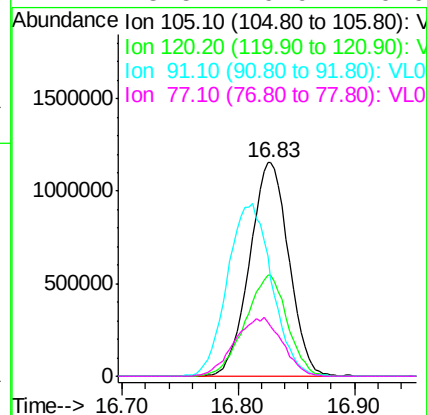
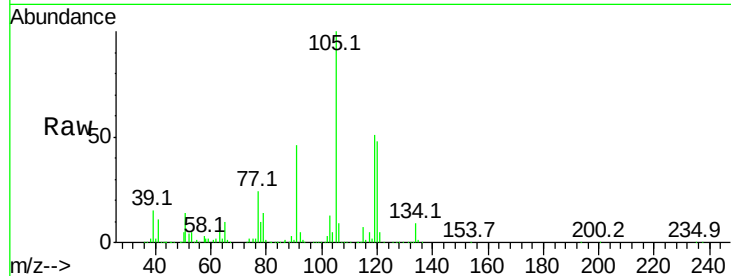




#74
 1,2,4-Trimethylbenzene
 Concen: 9.058 ppbv
 RT: 16.83 min Scan# 4367
 Delta R.T. 0.01 min
 Lab File: VL034541.D
 Acq: 31 Dec 2019 10:20

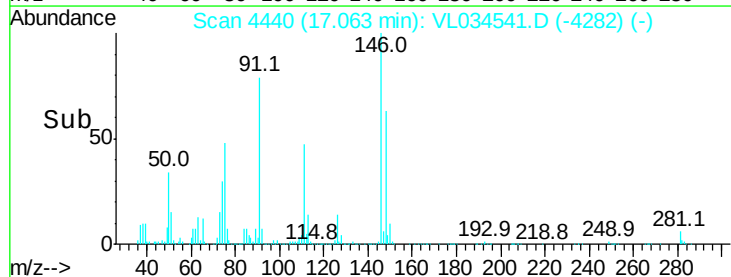
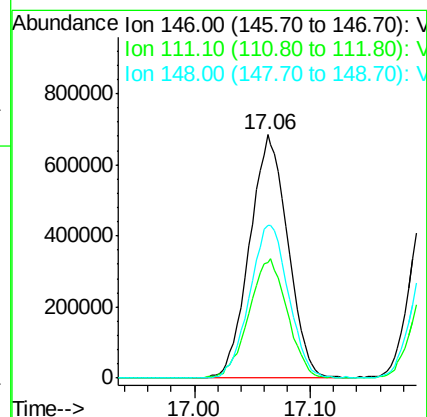
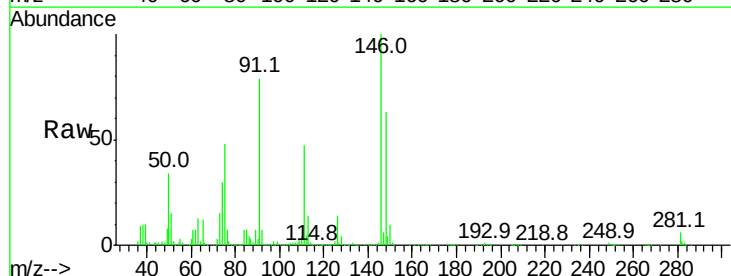
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

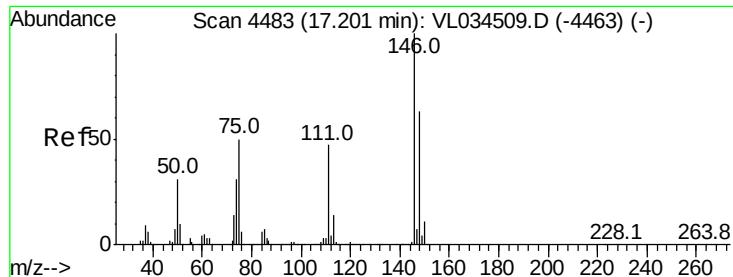
Tgt Ion:105 Resp: 2710205
 Ion Ratio Lower Upper
 105 100
 120 47.5 36.7 55.1
 91 45.7 44.0 66.0
 77 23.5 19.9 29.9



#75
 1,3-Dichlorobenzene
 Concen: 8.743 ppbv
 RT: 17.06 min Scan# 4440
 Delta R.T. 0.01 min
 Lab File: VL034541.D
 Acq: 31 Dec 2019 10:20

Tgt Ion:146 Resp: 1566783
 Ion Ratio Lower Upper
 146 100
 111 49.4 25.1 75.3
 148 64.0 33.0 99.0

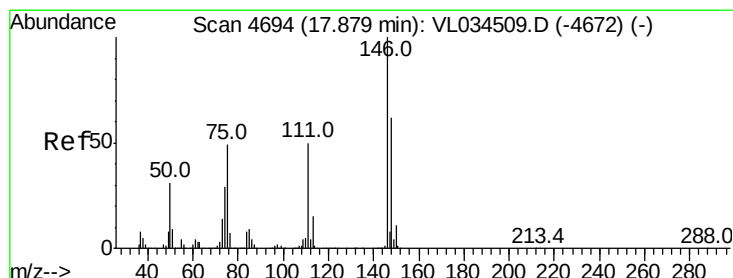
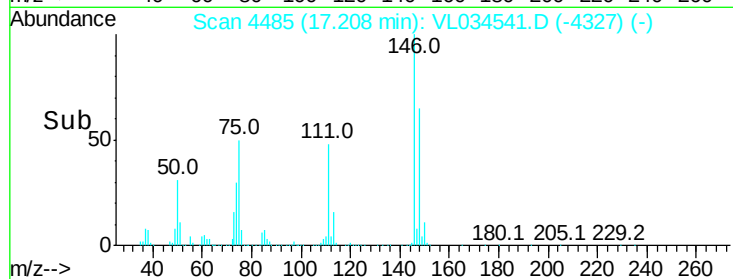
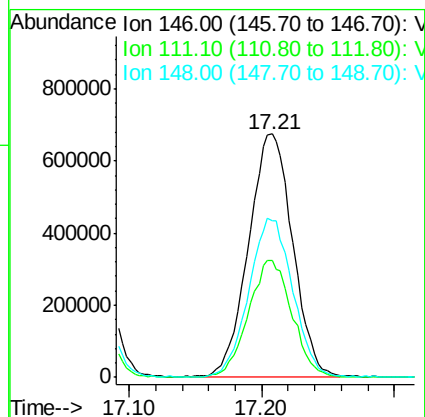
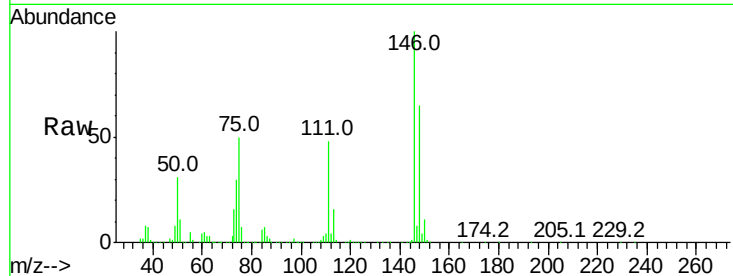




#76
 1,4-Dichlorobenzene
 Concen: 9.013 ppbv
 RT: 17.21 min Scan# 4485
 Delta R.T. 0.01 min
 Lab File: VL034541.D
 Acq: 31 Dec 2019 10:20

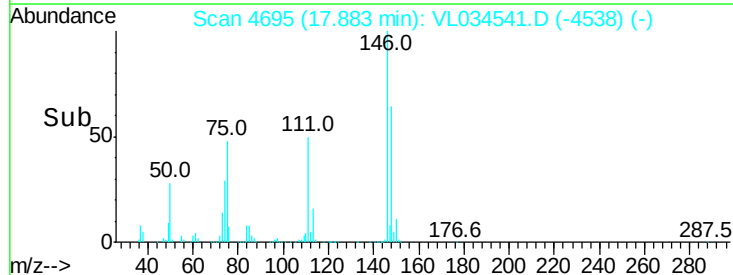
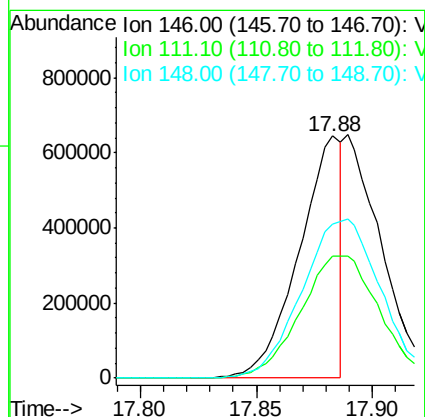
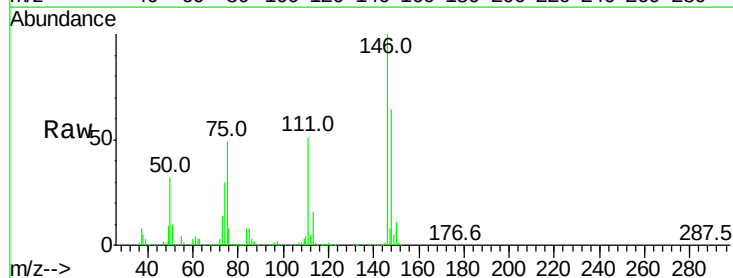
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

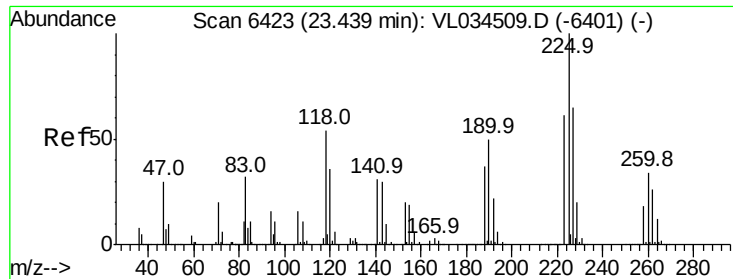
Tgt Ion:146 Resp: 1555074
 Ion Ratio Lower Upper
 146 100
 111 47.7 23.5 70.6
 148 65.2 32.1 96.3



#77
 1,2-Dichlorobenzene
 Concen: 4.868 ppbv
 RT: 17.88 min Scan# 4695
 Delta R.T. 0.00 min
 Lab File: VL034541.D
 Acq: 31 Dec 2019 10:20

Tgt Ion:146 Resp: 819779
 Ion Ratio Lower Upper
 146 100
 111 0.0 25.3 75.8#
 148 0.0 32.1 96.3#





#78

Hexachloro-1,3-Butadiene

Concen: 9.618 ppbv

RT: 23.45 min Scan# 6426

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

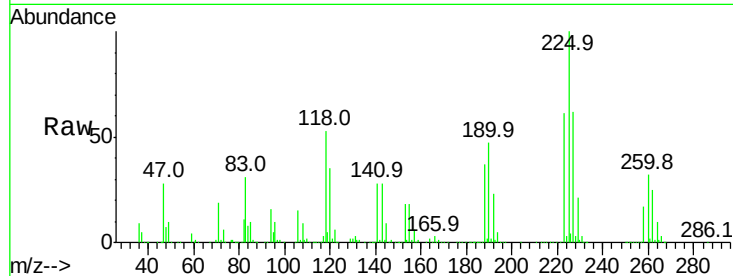
Tgt Ion:225 Resp: 1537608

Ion Ratio Lower Upper

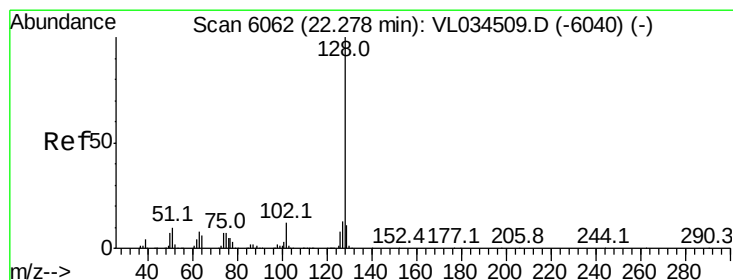
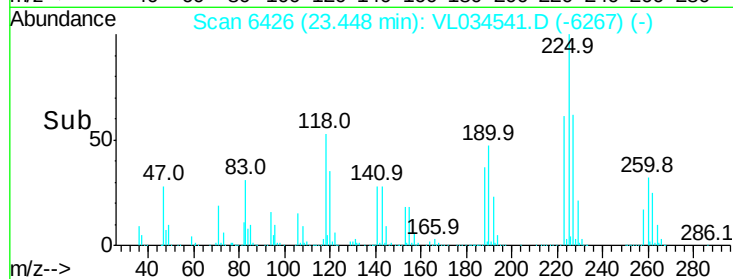
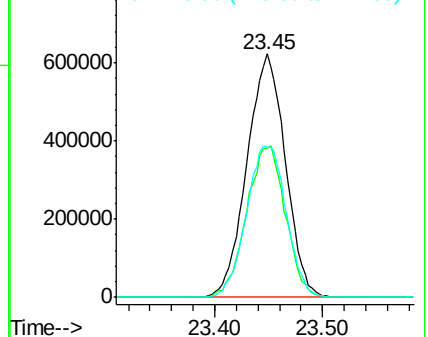
225 100

223 63.0 51.0 76.6

227 64.8 51.8 77.6



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: 12.338 ppbv

RT: 22.29 min Scan# 6066

Delta R.T. 0.01 min

Lab File: VL034541.D

Acq: 31 Dec 2019 10:20

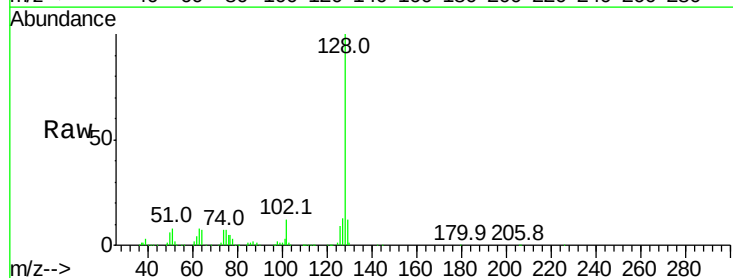
Tgt Ion:128 Resp: 2780413

Ion Ratio Lower Upper

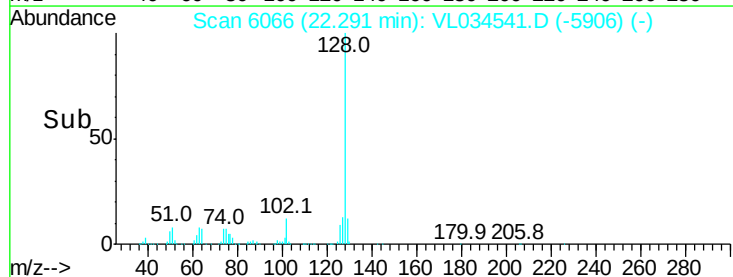
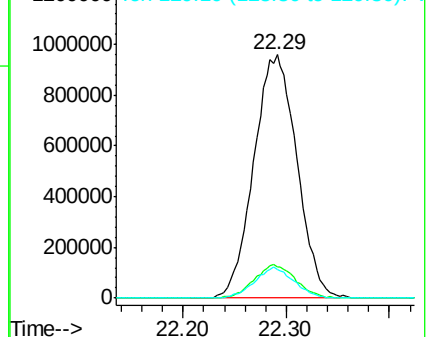
128 100

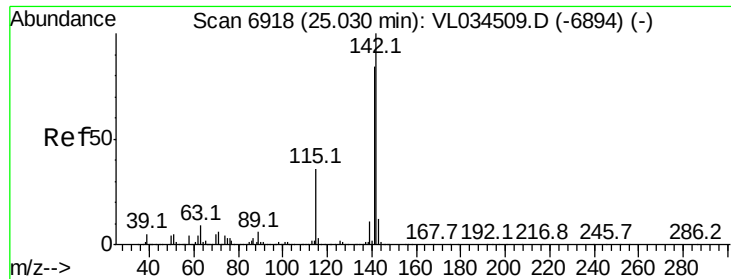
127 12.8 10.6 15.8

129 11.8 8.7 13.1



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V

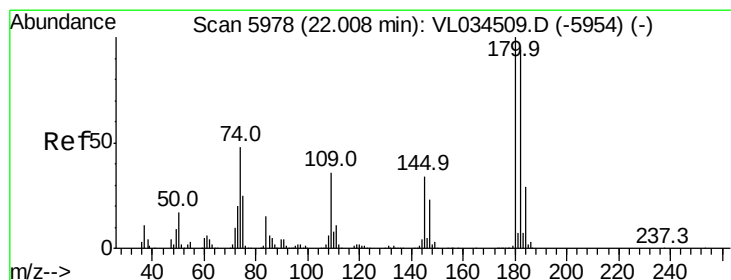
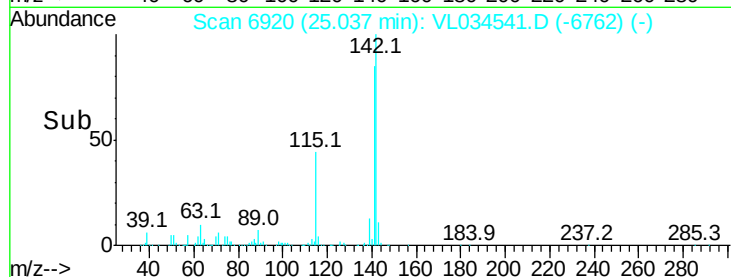
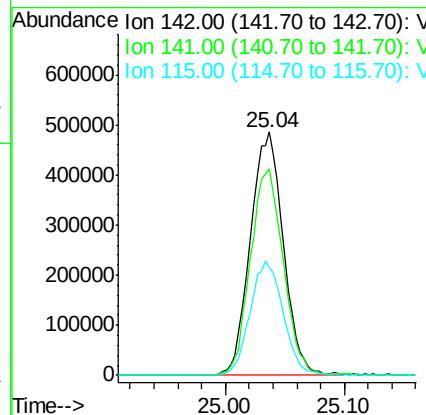
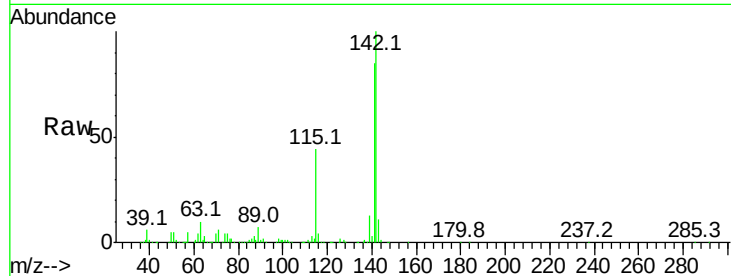




#80
Naphthalene, 2-methyl-
Concen: 14.915 ppbv
RT: 25.04 min Scan# 6920
Delta R.T. 0.01 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.0	65.8	98.8
115	47.2	30.4	45.6



#81
1,2,4-Trichlorobenzene
Concen: 11.252 ppbv
RT: 22.02 min Scan# 5981
Delta R.T. 0.01 min
Lab File: VL034541.D
Acq: 31 Dec 2019 10:20

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.9	77.8	116.8
184	31.0	25.2	37.8

