

Data File : VL033262.D
Acq On : 8 Mar 2019 16:36
Operator : SY/AP
Sample : VSTDIC015
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Quant Time: Mar 08 17:24:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030819AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 08 16:12:14 2019
QLast Update : Fri Mar 08 16:12:14 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1032919	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2389318	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2543188	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1925788	9.98	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	2231020	15.290	ppbv	100
3) Chlorodifluoromethane	3.01	51	1400993	11.852	ppbv	99
4) Chloromethane	3.17	50	763368	12.544	ppbv	96
5) Vinyl Chloride	3.29	62	737844	10.813	ppbv	97
6) Bromomethane	3.52	94	460565	11.802	ppbv	99
7) Chloroethane	3.60	64	282545	12.392	ppbv	96
8) Dichlorotetrafluoroethane	3.22	85	1807676	12.533	ppbv	100
9) Propene	3.04	41	632724	12.011	ppbv	98
10) Heptane	8.25	43	1960261	13.677	ppbv	99
11) Trichlorofluoromethane	4.00	101	2095929	12.233	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1365437	12.293	ppbv	99
13) Ethanol	3.65	45	119863	7.610	ppbv	100
14) Bromoethene	3.79	108	601039	12.844	ppbv	99
15) Acetone	3.90	43	1393285	10.482	ppbv	100
16) 1,3-Butadiene	3.36	39	639792	12.053	ppbv	92
17) tert-Butyl alcohol	4.36	59	225580	10.413	ppbv	100
18) 1,1-Dichloroethene	4.35	96	620619	12.549	ppbv	94
19) Isopropyl Alcohol	4.02	45	788004	9.972	ppbv	100
20) Methylene Chloride	4.41	84	544812	10.815	ppbv	97
21) Allyl Chloride	4.48	41	975474	13.150	ppbv	100
22) trans-1,2-Dichloroethene	4.96	96	652038	12.916	ppbv	97
23) Vinyl Acetate	5.16	43	2347988	11.975	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1589871	11.373	ppbv	100
25) Ethyl Acetate	5.77	43	3156130	12.951	ppbv	100
26) Hexane	5.78	57	1443706	12.673	ppbv	99
27) Carbon Disulfide	4.62	76	1583703	14.422	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1830849	11.653	ppbv	100
29) Chloroform	5.85	83	2338702	13.200	ppbv	96
30) Cyclohexane	7.25	84	1221586	14.322	ppbv	97
31) cis-1,2-Dichloroethene	5.64	61	1580611	14.365	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	2386866	13.887	ppbv	99
34) 2-Butanone	5.33	43	1845788	11.149	ppbv	100
35) Carbon Tetrachloride	7.14	117	897487	4.966	ppbv	89
36) Benzene	7.00	78	3048887	13.596	ppbv	98
37) 1,2-Dichloroethane	6.42	62	1945544	13.938	ppbv	99
38) Trichloroethene	7.96	130	1114787	13.163	ppbv	94
39) 1,2-Dichloropropane	7.74	63	1163617	13.290	ppbv	97
40) 1,4-Dioxane	7.96	88	224912	6.924	ppbv #	1
41) Tetrahydrofuran	6.15	42	1240869	13.643	ppbv	99
42) Bromodichloromethane	7.92	83	2668350	13.519	ppbv	95
43) Methyl Methacrylate	8.14	69	1274904	14.053	ppbv	98

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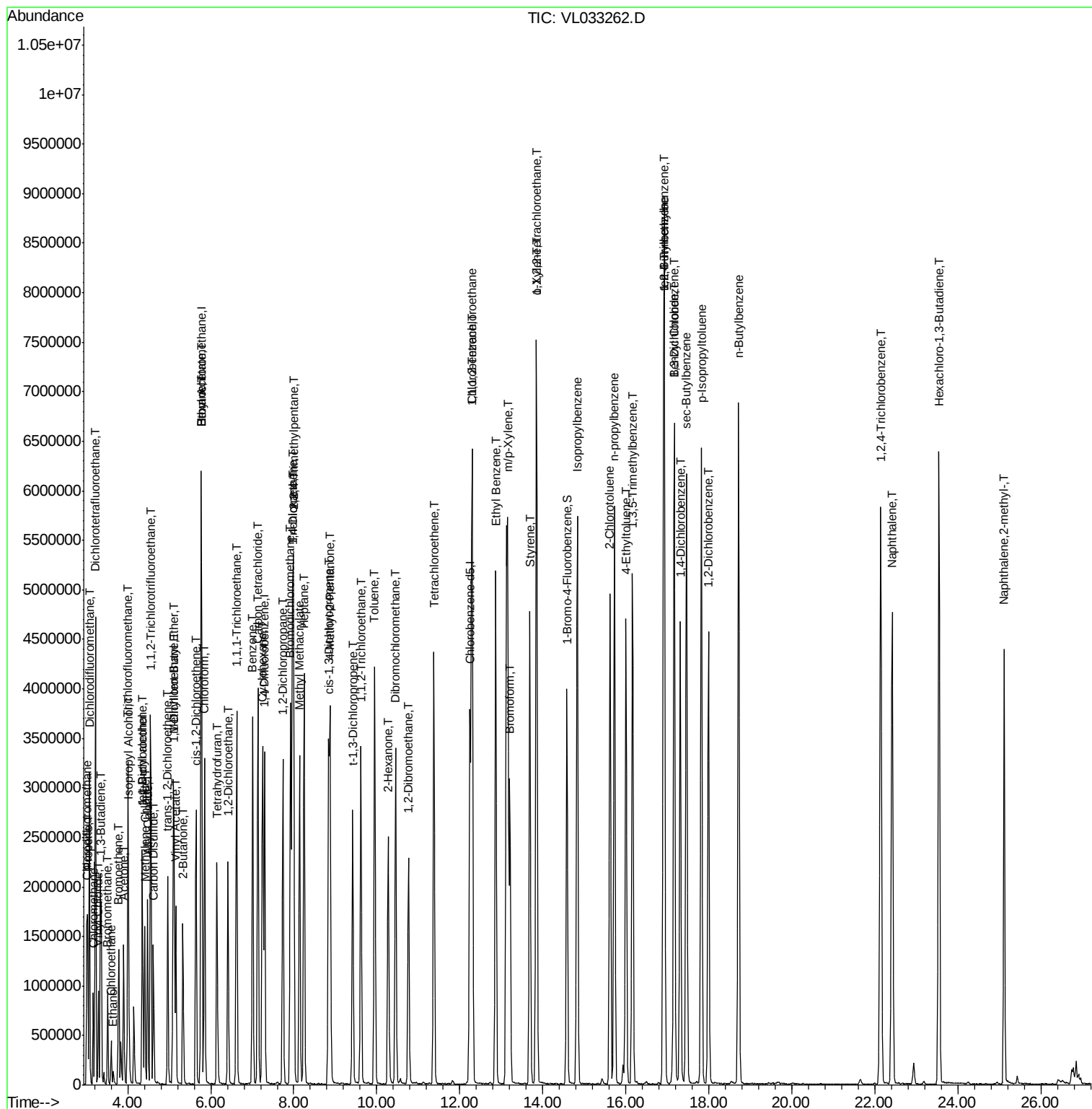
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	4996153	12.599	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1674569	15.254	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1891917	14.448	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	1213464	12.878	ppbv	94
48) Dibromochloromethane	10.45	129	2118774	13.882	ppbv	100
49) Bromoform	13.20	173	1851248	15.188	ppbv	97
50) 4-Methyl-2-Pentanone	8.87	43	3126702	12.769	ppbv	100
51) 2-Hexanone	10.27	43	2449602	13.374	ppbv #	100
52) Tetrachloroethene	11.37	164	1106876	13.244	ppbv	99
53) Toluene	9.95	91	3468098	13.376	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1206389	8.428	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	1474625	13.357	ppbv	89
57) Chlorobenzene	12.30	112	2481446	12.532	ppbv	98
58) Ethyl Benzene	12.87	91	4828693	13.727	ppbv	97
59) m/p-Xylene	13.15	91	2786186	9.295	ppbv #	1
60) o-Xylene	13.85	91	3878802	13.571	ppbv	100
61) Styrene	13.69	104	2946325	14.658	ppbv	97
62) Isopropylbenzene	14.82	105	5270985	13.228	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2466083	12.125	ppbv	98
64) n-propylbenzene	15.72	120	1399378	14.167	ppbv	98
65) tert-Butylbenzene	16.91	119	2514474	7.391	ppbv #	36
66) Benzyl Chloride	17.16	91	2431440	18.477	ppbv	99
67) sec-Butylbenzene	17.46	105	3417342	7.046	ppbv #	64
69) p-Isopropyltoluene	17.82	119	2628264	6.702	ppbv #	48
70) n-Butylbenzene	18.72	91	5779438	13.453	ppbv	99
71) 2-Chlorotoluene	15.62	91	4046459	13.281	ppbv	99
72) 4-Ethyltoluene	16.01	105	4347533	13.919	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	4157584	13.867	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	4139788	13.136	ppbv	93
75) 1,3-Dichlorobenzene	17.17	146	1142292	6.198	ppbv #	15
76) 1,4-Dichlorobenzene	17.31	146	2469056	13.517	ppbv	98
77) 1,2-Dichlorobenzene	17.99	146	2405182	13.442	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1719703	13.581	ppbv	100
79) Naphthalene	22.42	128	6220955	16.144	ppbv	99
80) Naphthalene,2-methyl-	25.11	142	2450642	21.286	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	2802469	14.474	ppbv	96

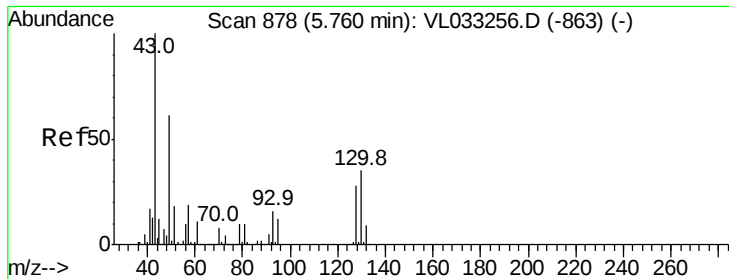
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

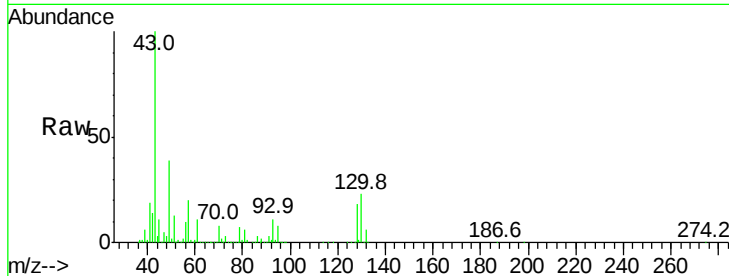
Tgt Ion: 49 Resp: 1032919

Ion Ratio Lower Upper

49 100

128 44.9 22.5 67.5

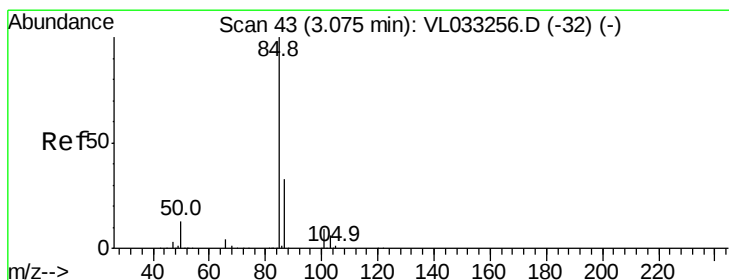
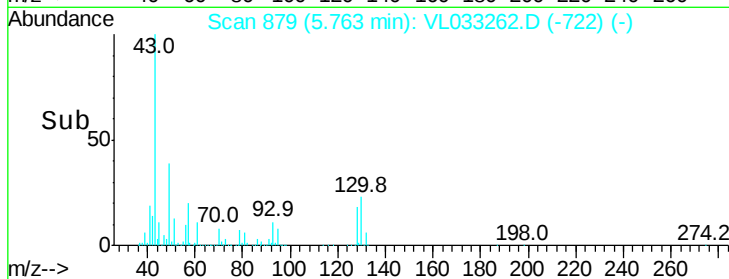
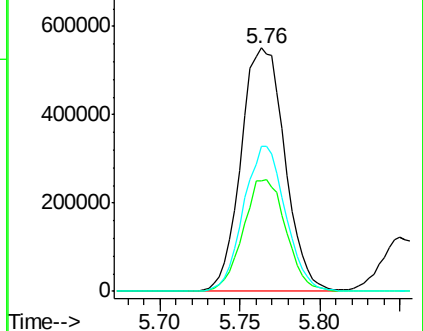
130 57.2 29.1 87.4



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: 15.290 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033262.D

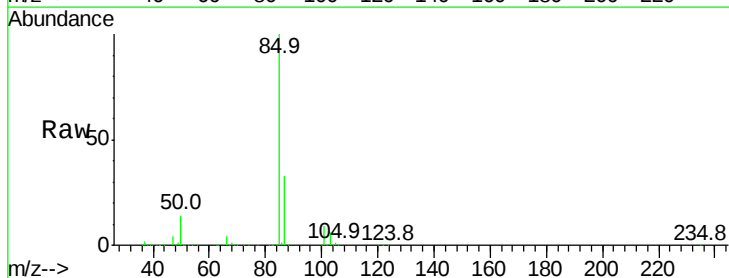
Acq: 8 Mar 2019 16:36

Tgt Ion: 85 Resp: 2231020

Ion Ratio Lower Upper

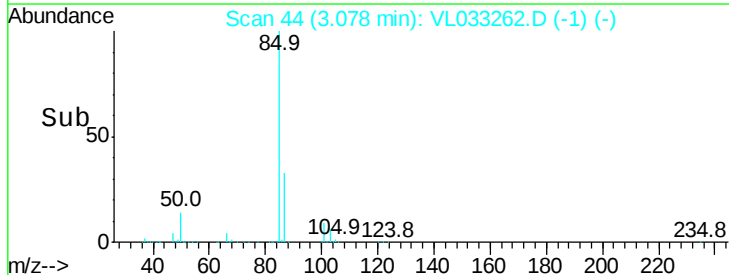
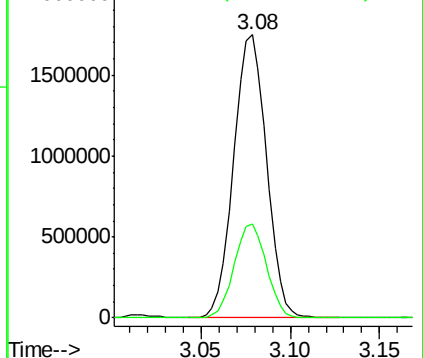
85 100

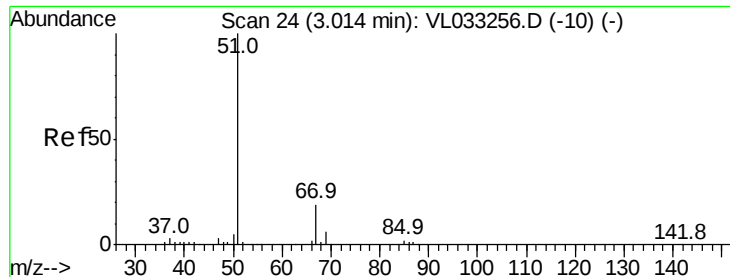
87 33.0 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 11.852 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Instrument :

MSVOA_L

ClientSampleId :

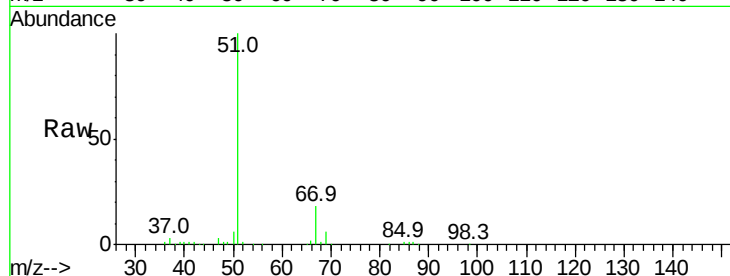
VSTDIC015

Tgt Ion: 51 Resp: 1400993

Ion Ratio Lower Upper

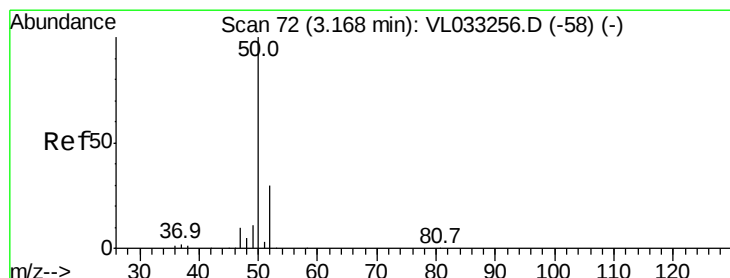
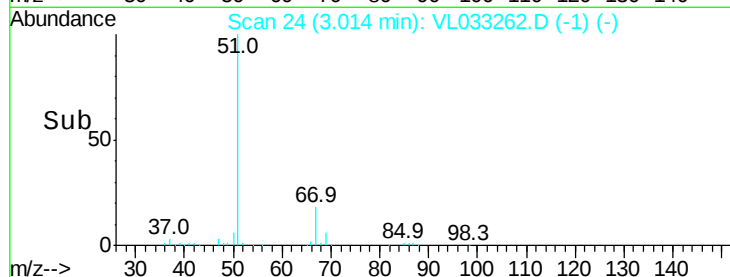
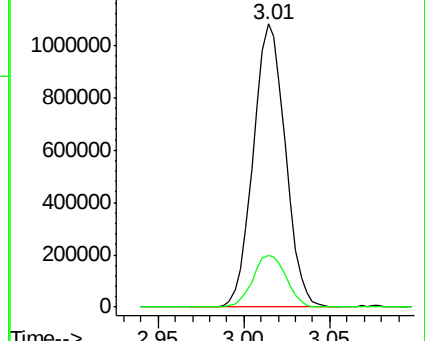
51 100

67 19.2 15.0 22.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 12.544 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033262.D

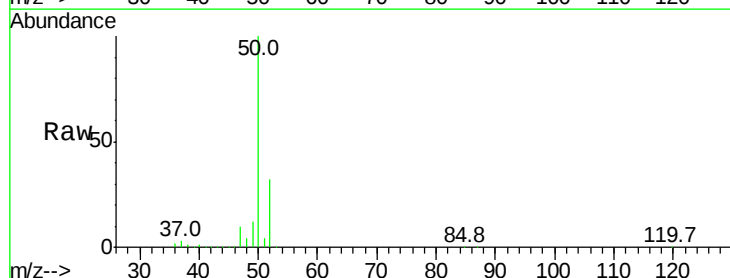
Acq: 8 Mar 2019 16:36

Tgt Ion: 50 Resp: 763368

Ion Ratio Lower Upper

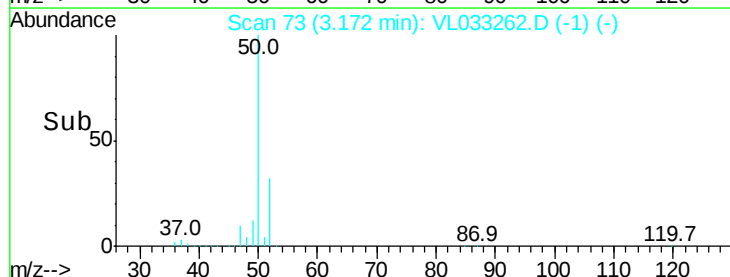
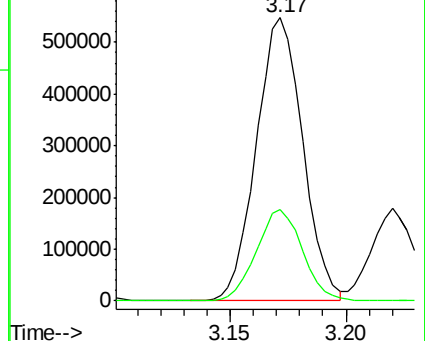
50 100

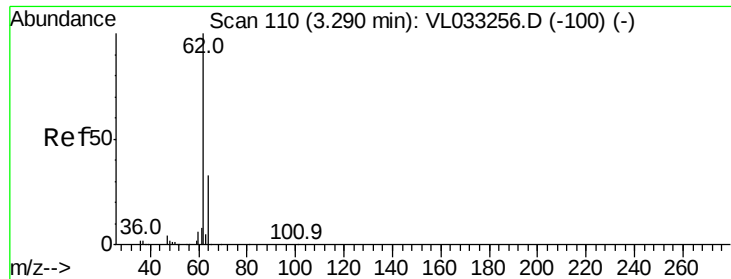
52 32.4 24.2 36.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 10.813 ppbv

RT: 3.29 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Instrument :

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ClientSampleId :

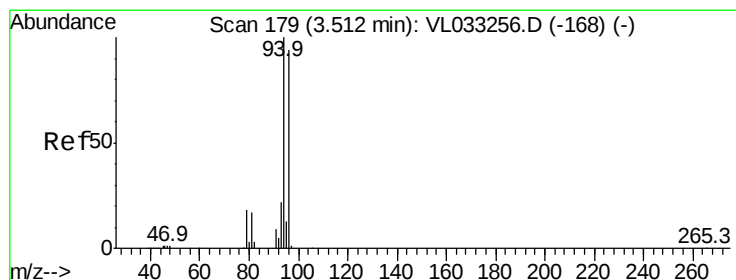
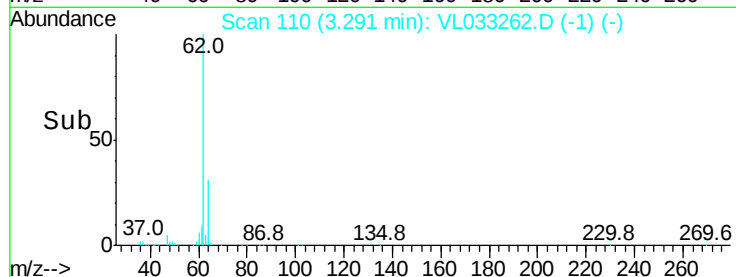
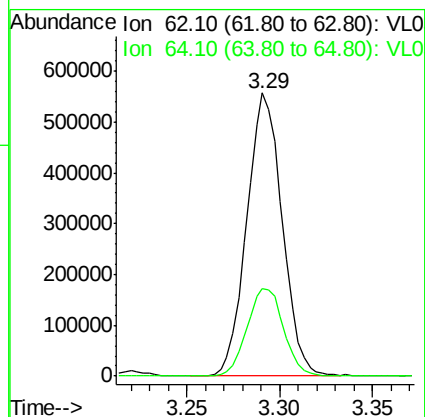
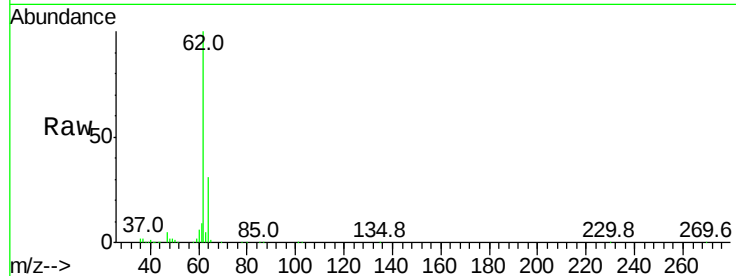
VSTDIC015

Tgt Ion: 62 Resp: 737844

Ion Ratio Lower Upper

62 100

64 31.2 26.4 39.6



#6

Bromomethane

Concen: 11.802 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033262.D

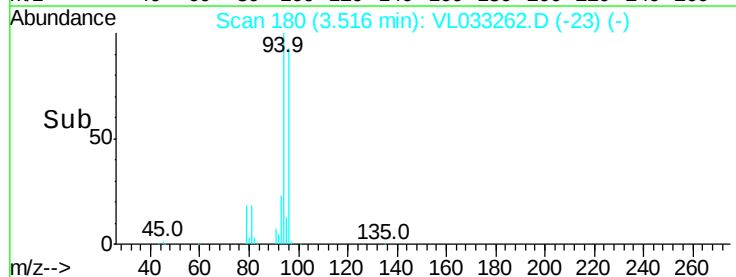
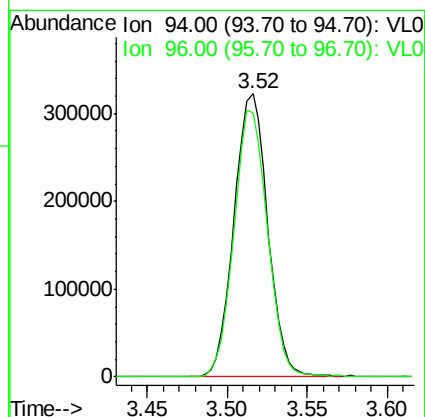
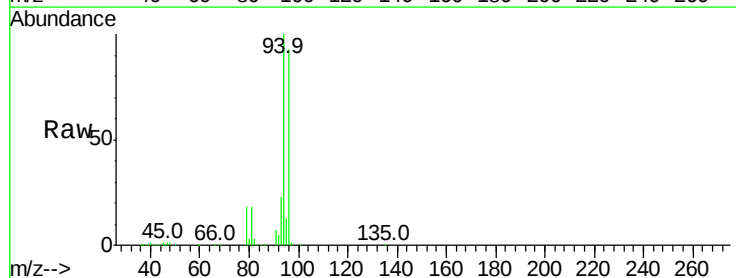
Acq: 8 Mar 2019 16:36

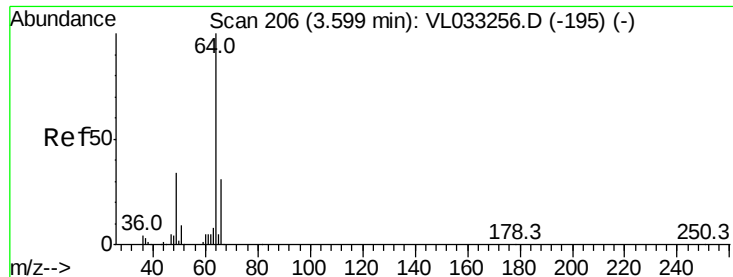
Tgt Ion: 94 Resp: 460565

Ion Ratio Lower Upper

94 100

96 93.4 75.3 112.9





#7

Chloroethane

Concen: 12.392 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

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MSVOA_L

ClientSampleId :

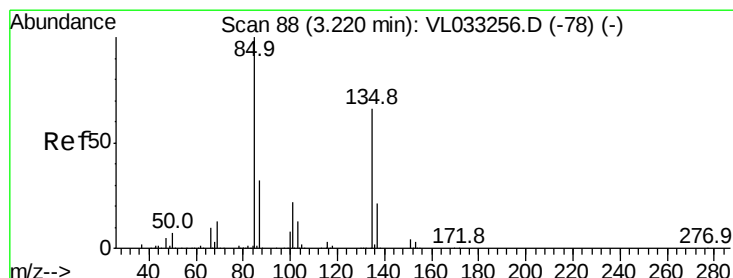
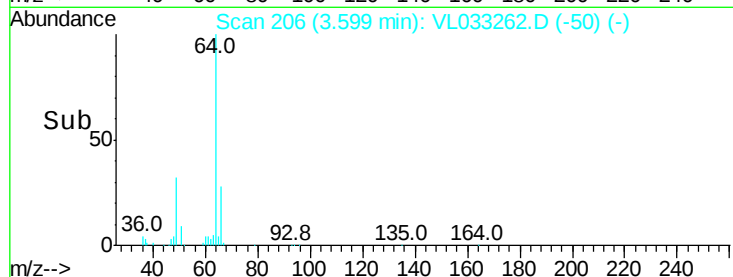
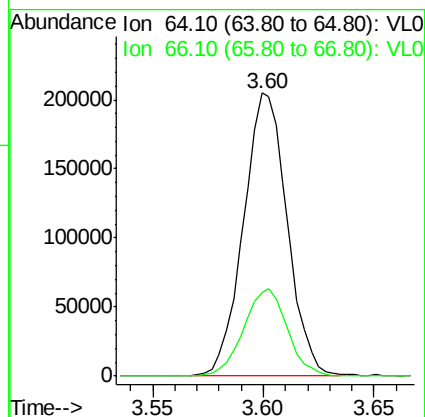
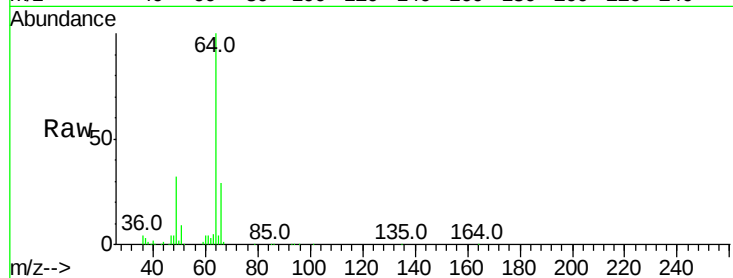
VSTDIC015

Tgt Ion: 64 Resp: 282545

Ion Ratio Lower Upper

64 100

66 29.5 25.2 37.8



#8

Dichlorotetrafluoroethane

Concen: 12.533 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033262.D

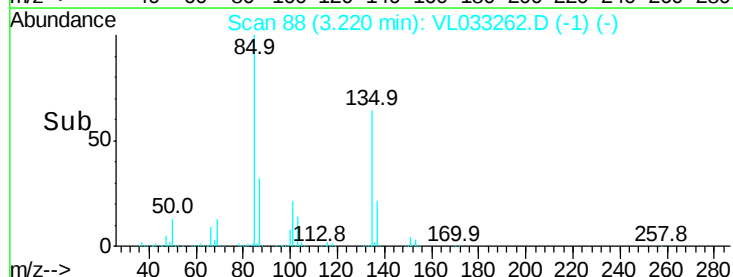
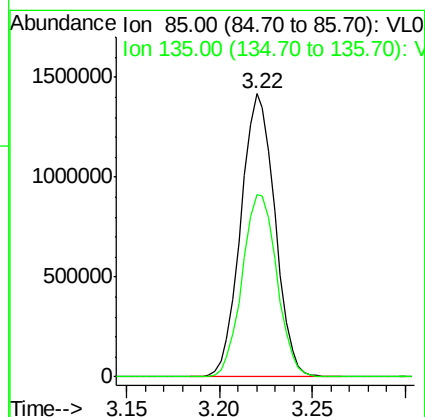
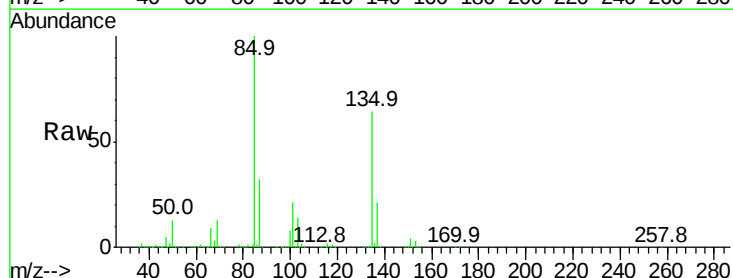
Acq: 8 Mar 2019 16:36

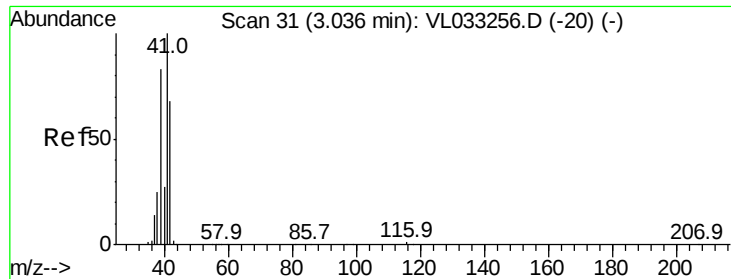
Tgt Ion: 85 Resp: 1807676

Ion Ratio Lower Upper

85 100

135 65.7 52.3 78.5





#9

Propene

Concen: 12.011 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

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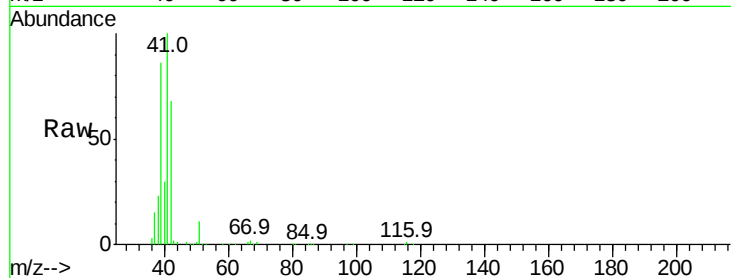
VSTDIC015

Tgt Ion: 41 Resp: 632724

Ion Ratio Lower Upper

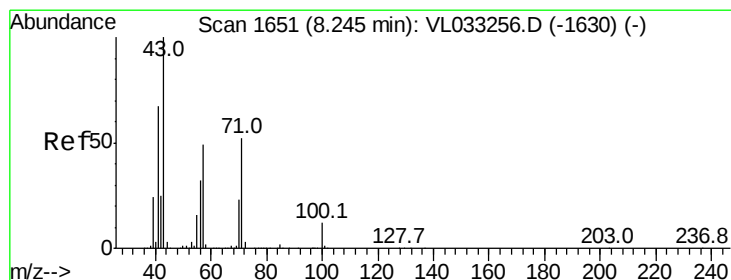
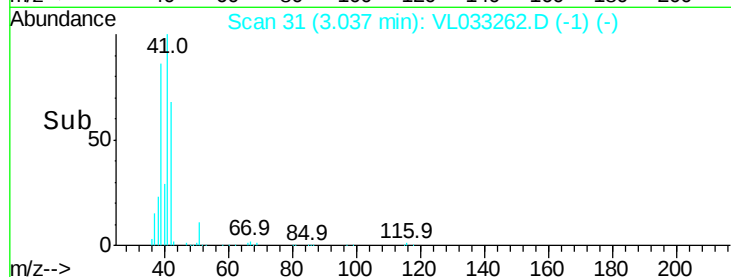
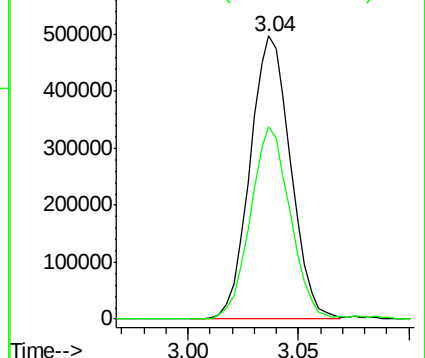
41 100

42 67.6 55.2 82.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 13.677 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. 0.00 min

Lab File: VL033262.D

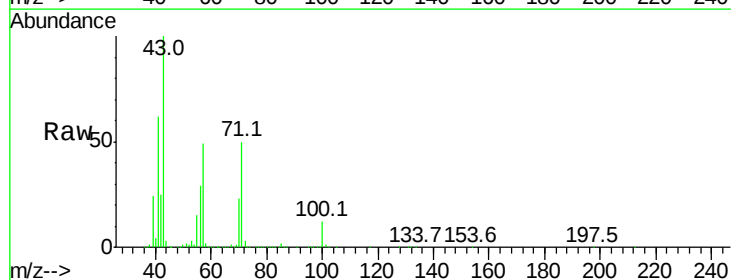
Acq: 8 Mar 2019 16:36

Tgt Ion: 43 Resp: 1960261

Ion Ratio Lower Upper

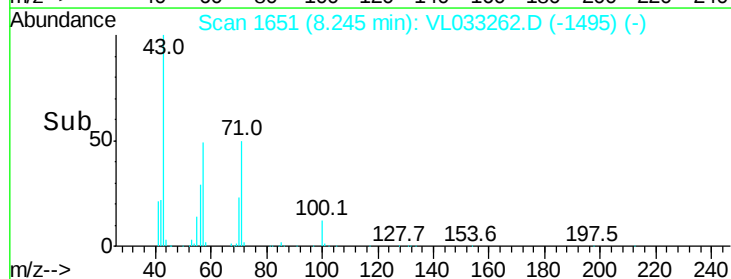
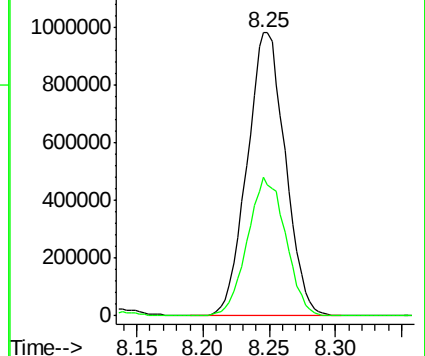
43 100

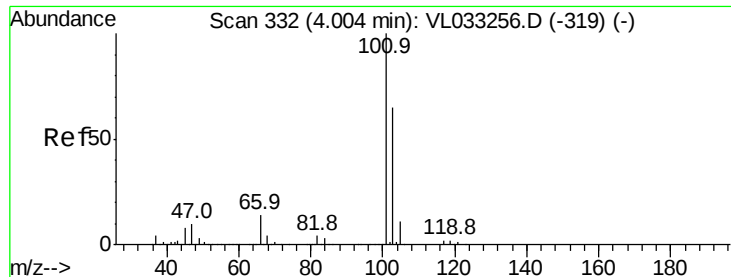
57 49.0 40.0 60.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 12.233 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

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MSVOA_L

ClientSampleId :

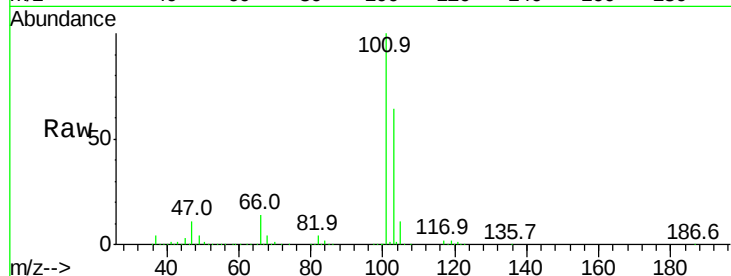
VSTDIC015

Tgt Ion:101 Resp: 2095929

Ion Ratio Lower Upper

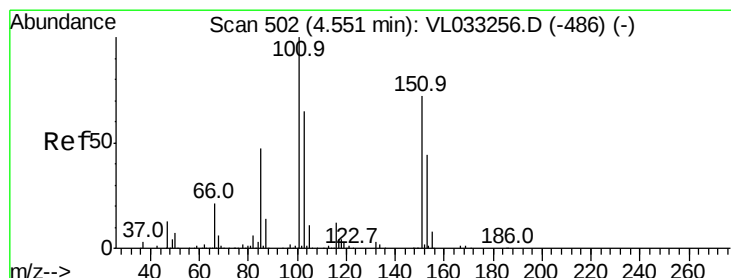
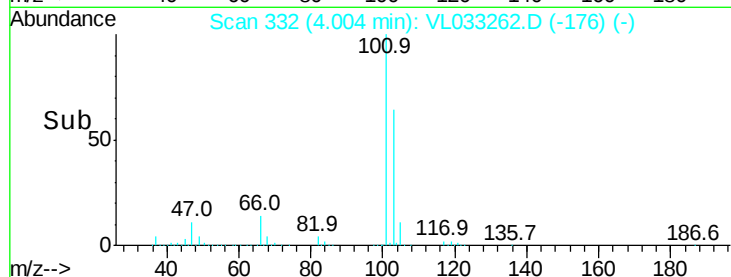
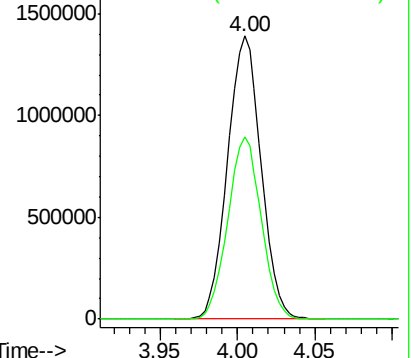
101 100

103 64.4 51.9 77.9



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: 12.293 ppbv

RT: 4.55 min Scan# 502

Delta R.T. 0.00 min

Lab File: VL033262.D

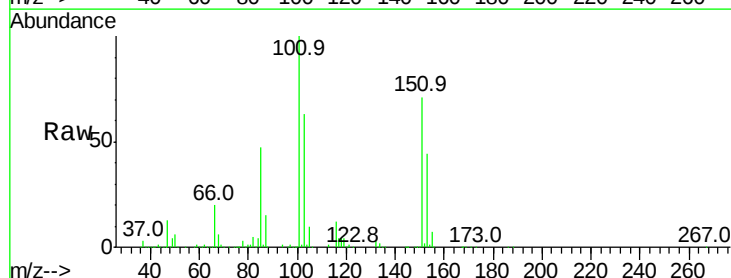
Acq: 8 Mar 2019 16:36

Tgt Ion:101 Resp: 1365437

Ion Ratio Lower Upper

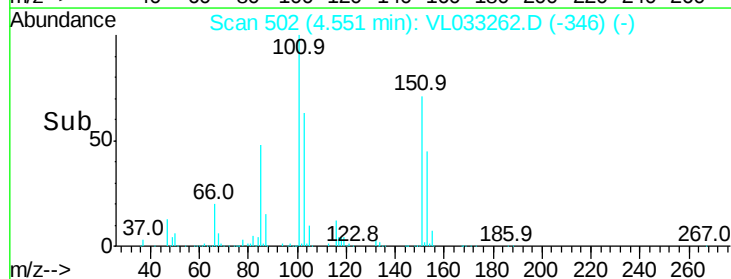
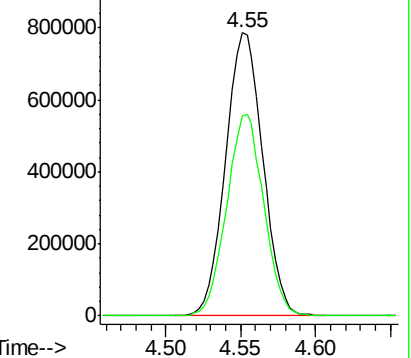
101 100

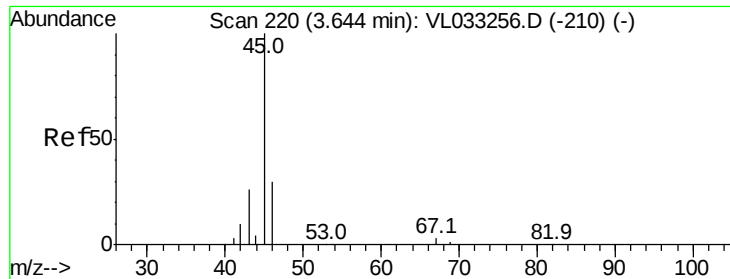
151 70.9 57.2 85.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 7.610 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.01 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Instrument :

MSVOA_L

ClientSampleId :

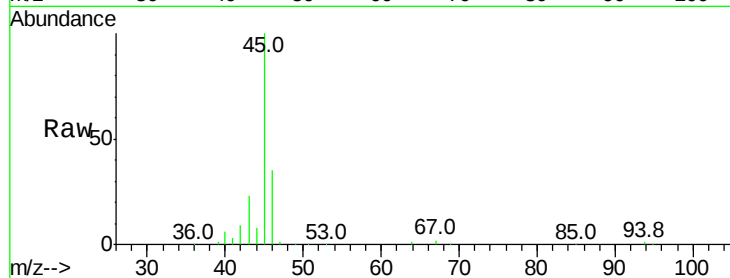
VSTDIC015

Tgt Ion: 45 Resp: 119863

Ion Ratio Lower Upper

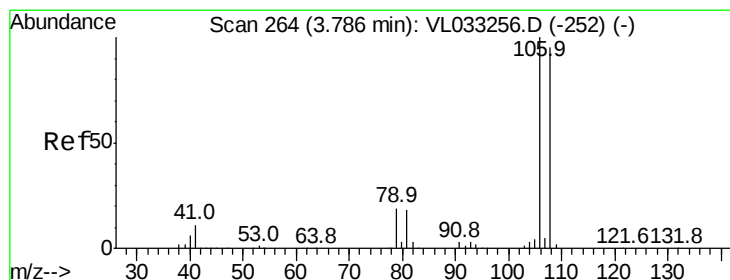
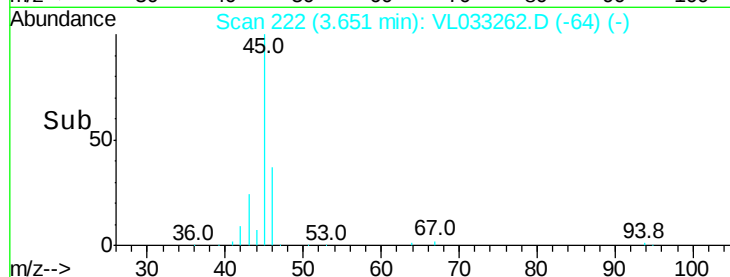
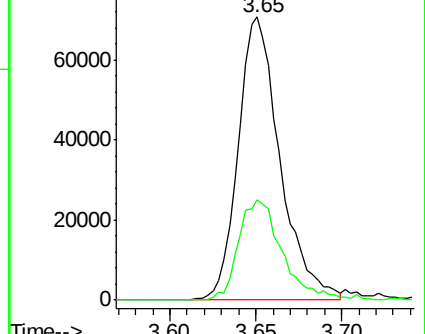
45 100

46 37.3 14.9 59.7



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 12.844 ppbv

RT: 3.79 min Scan# 264

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

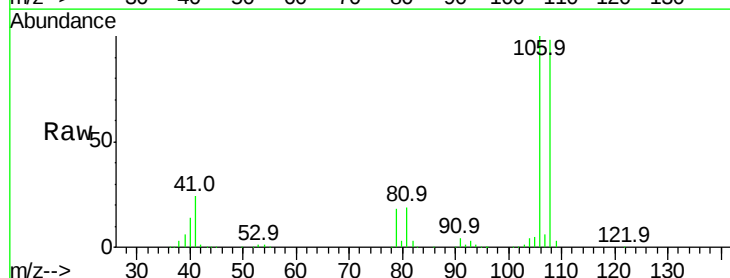
Tgt Ion: 108 Resp: 601039

Ion Ratio Lower Upper

108 100

106 107.3 86.9 130.3

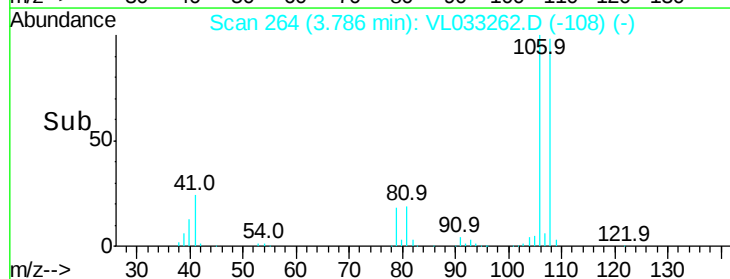
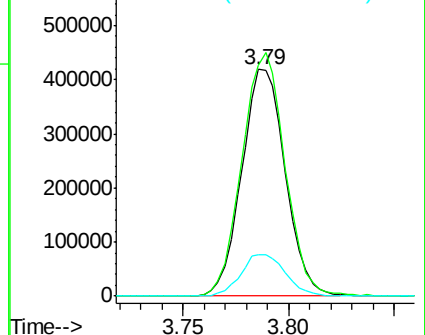
79 19.1 15.8 23.6

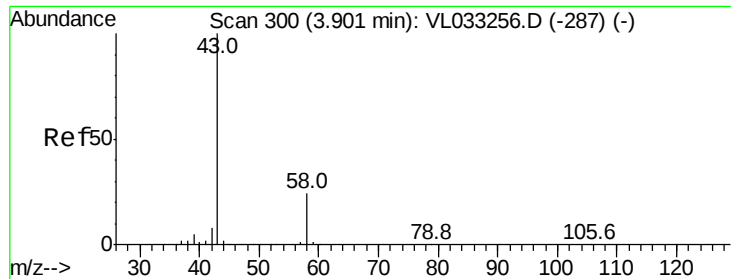


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 10.482 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Instrument :

MSVOA_L

ClientSampleId :

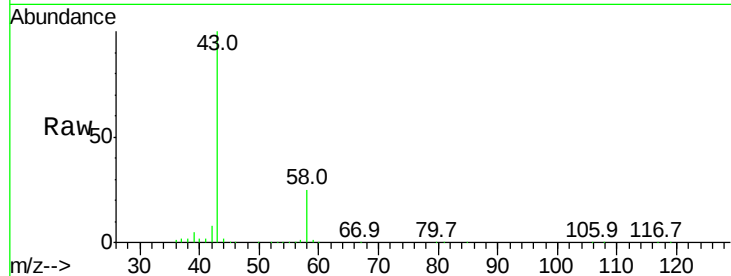
VSTDIC015

Tgt Ion: 43 Resp: 1393285

Ion Ratio Lower Upper

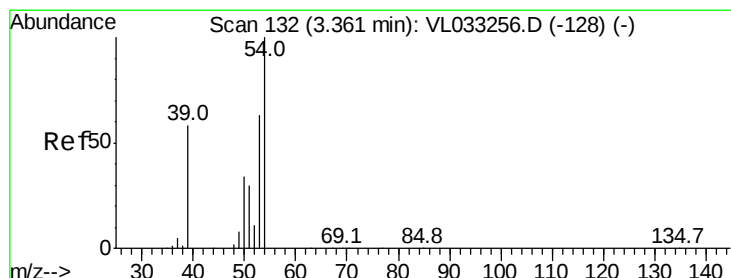
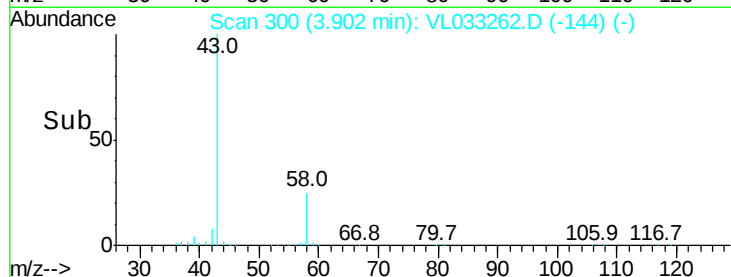
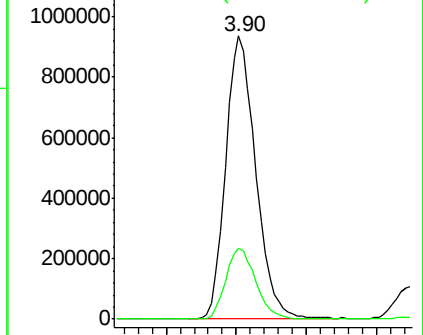
43 100

58 25.2 20.2 30.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 12.053 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033262.D

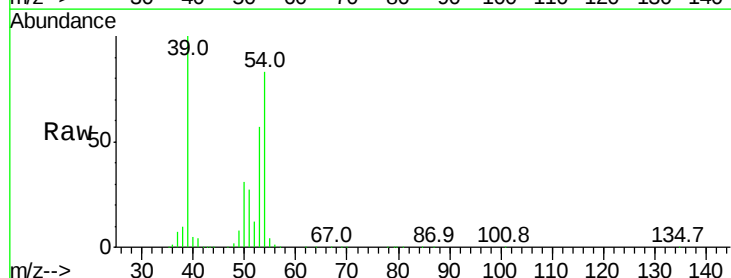
Acq: 8 Mar 2019 16:36

Tgt Ion: 39 Resp: 639792

Ion Ratio Lower Upper

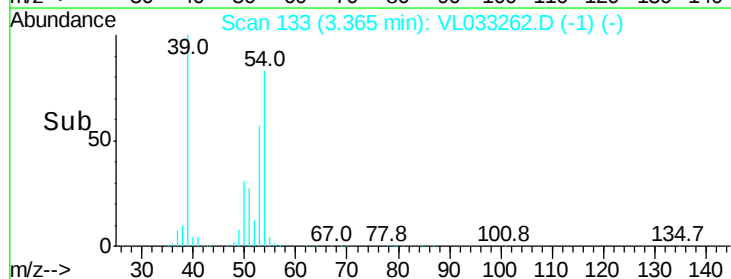
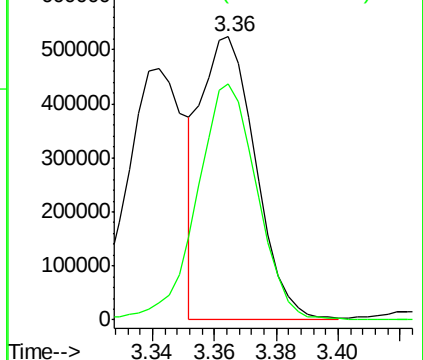
39 100

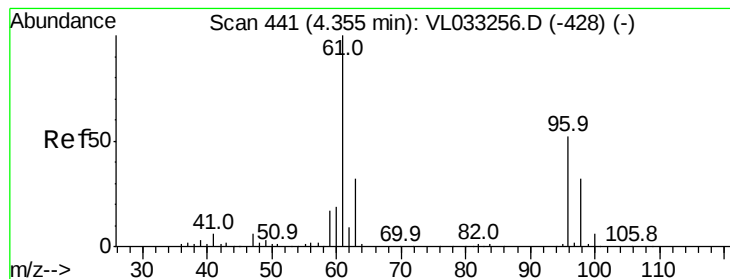
54 92.7 68.6 103.0



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 10.413 ppbv

RT: 4.36 min Scan# 442

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Instrument :

MSVOA_L

ClientSampleId :

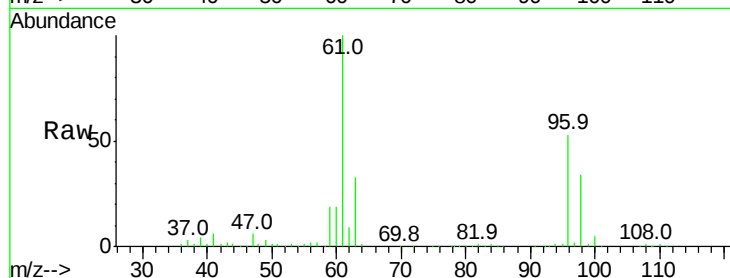
VSTDIC015

Tgt Ion: 59 Resp: 225580

Ion Ratio Lower Upper

59 100

57 9.0 7.2 10.8



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

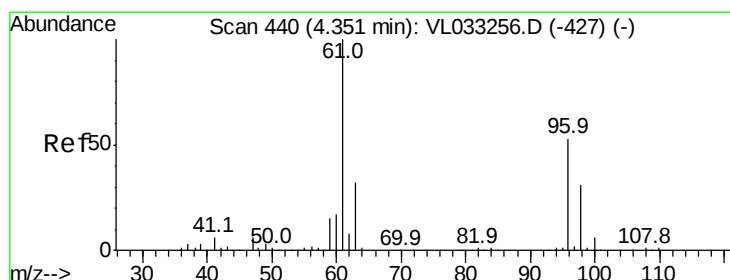
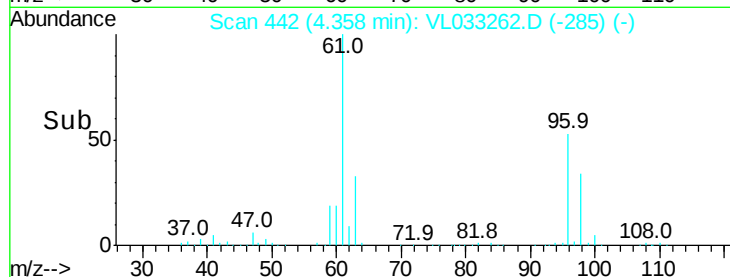
4.36

100000

50000

0

Time-->



#18

1,1-Dichloroethene

Concen: 12.549 ppbv

RT: 4.35 min Scan# 440

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

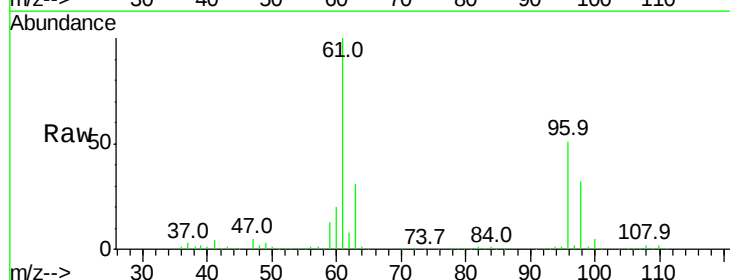
Tgt Ion: 96 Resp: 620619

Ion Ratio Lower Upper

96 100

61 196.9 150.6 226.0

98 63.4 47.0 70.4



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

1000000

800000

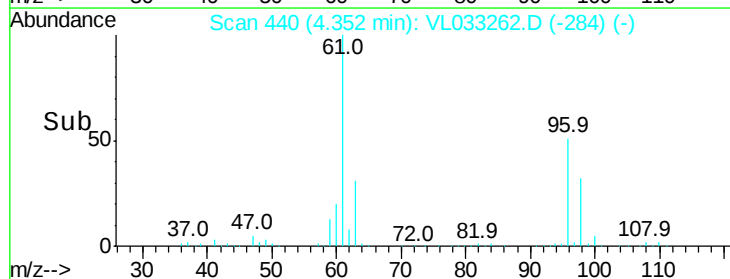
600000

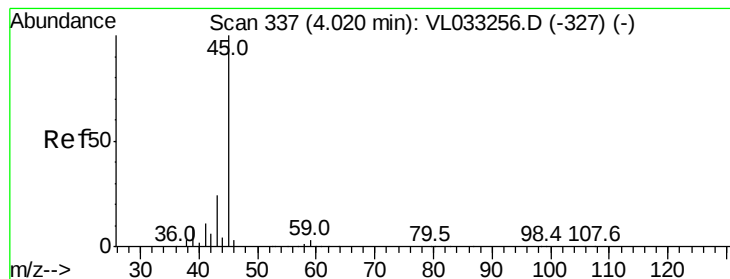
400000

200000

0

Time-->





#19

Isopropyl Alcohol

Concen: 9.972 ppbv

RT: 4.02 min Scan# 338

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Instrument :

MSVOA_L

ClientSampleId :

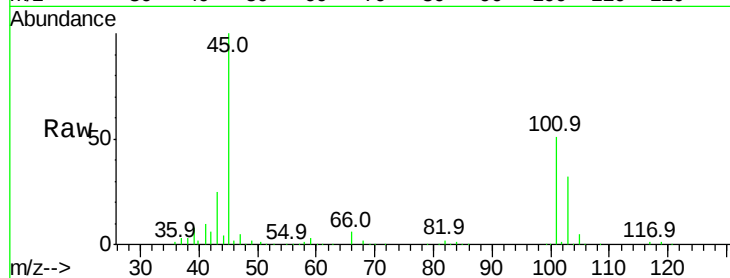
VSTDIC015

Tgt Ion: 45 Resp: 788004

Ion Ratio Lower Upper

45 100

58 2.0 1.5 2.3



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.02

400000

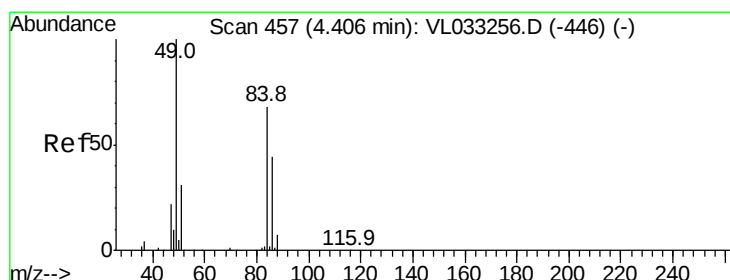
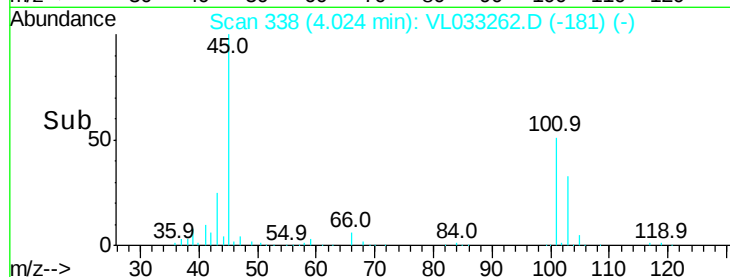
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 10.815 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Tgt Ion: 84 Resp: 544812

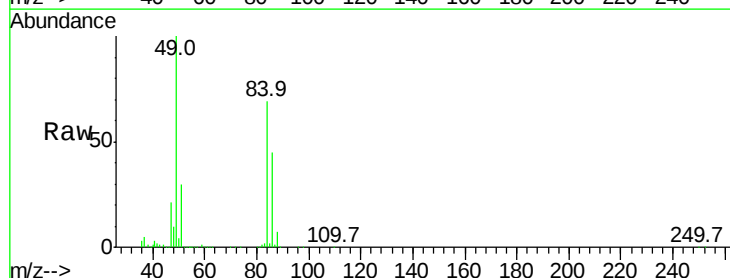
Ion Ratio Lower Upper

84 100

49 143.9 117.8 176.6

51 43.1 36.9 55.3

86 65.5 51.7 77.5



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

800000

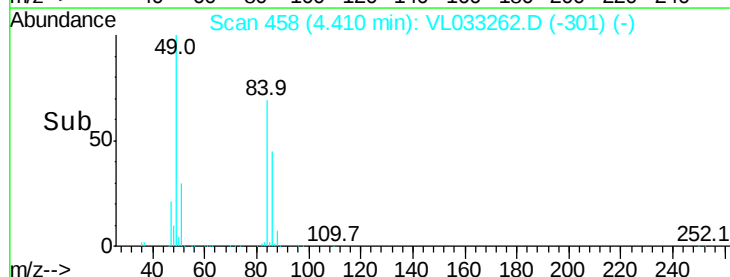
600000

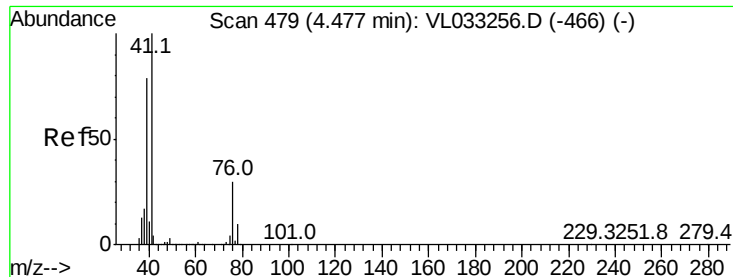
400000

200000

0

Time-->





#21

Allyl Chloride

Concen: 13.150 ppbv

RT: 4.48 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

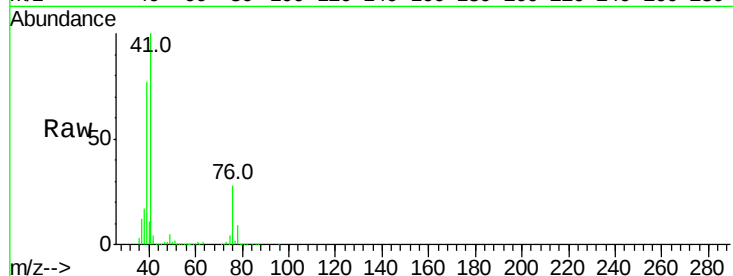
Tgt Ion: 41 Resp: 975474

Ion Ratio Lower Upper

41 100

76 30.5 24.5 36.7

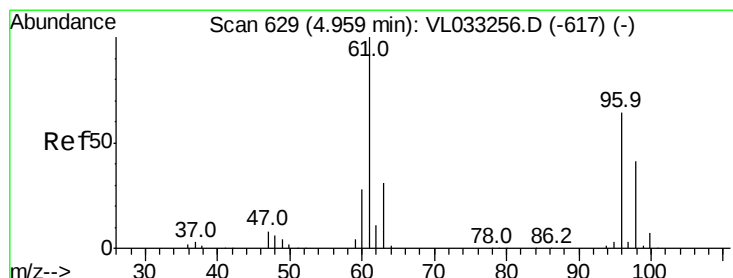
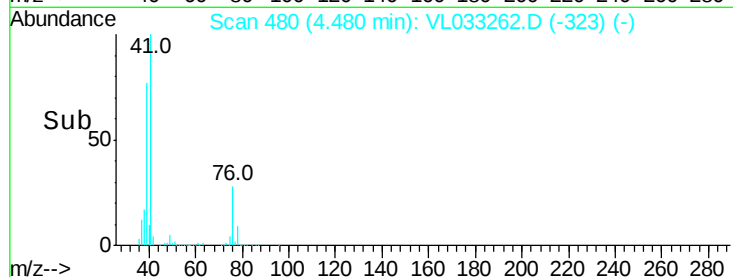
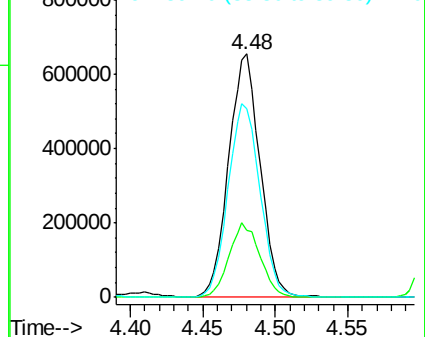
39 81.5 65.3 97.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 12.916 ppbv

RT: 4.96 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

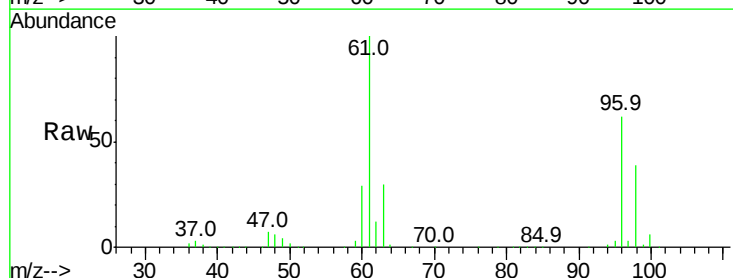
Tgt Ion: 96 Resp: 652038

Ion Ratio Lower Upper

96 100

61 161.9 125.7 188.5

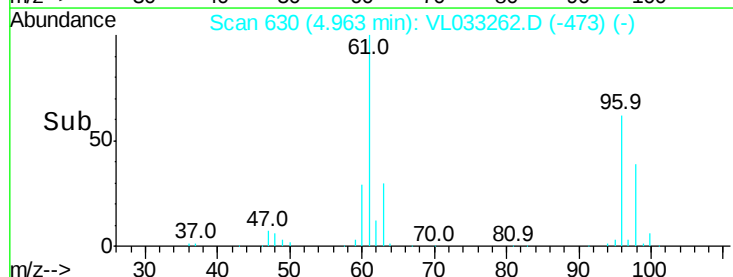
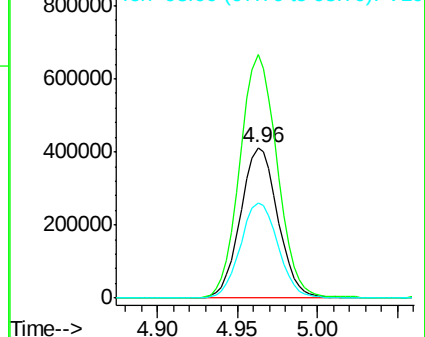
98 63.4 52.1 78.1

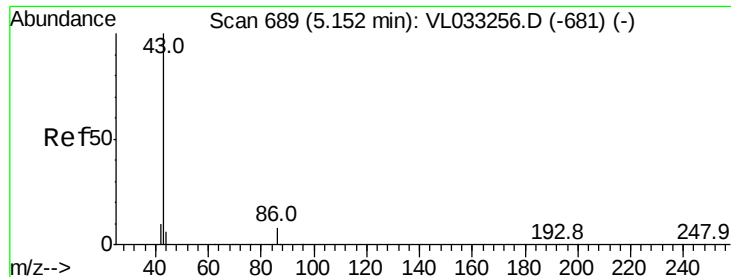


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 11.975 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Instrument :

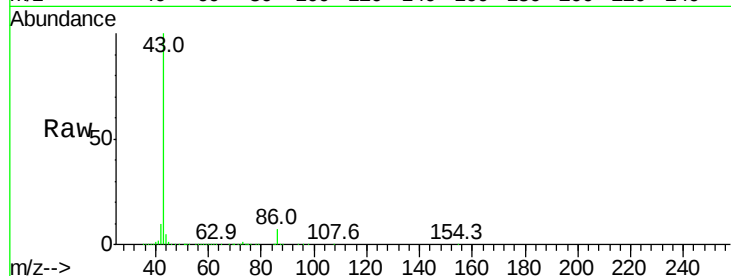
MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 2347988

Ion	Ratio	Lower	Upper
43	100		
86	7.2	5.6	8.4
42	10.2	8.1	12.1
44	5.1	4.3	6.5

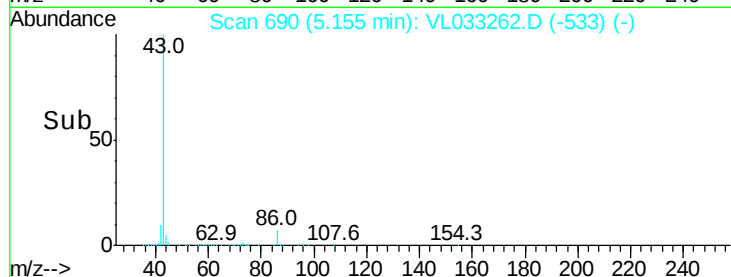


Abundance Ion 43.10 (42.80 to 43.80): VL0

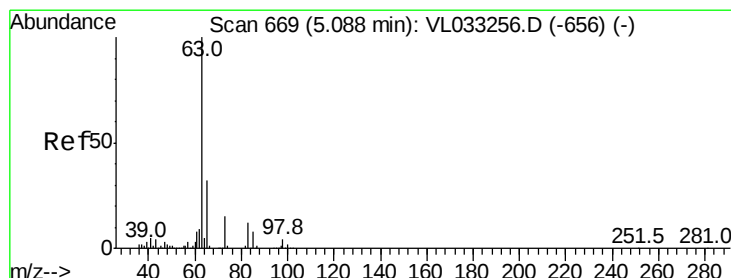
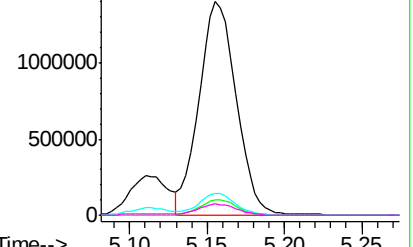
Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



Time-->



#24

1,1-Dichloroethane

Concen: 11.373 ppbv

RT: 5.09 min Scan# 670

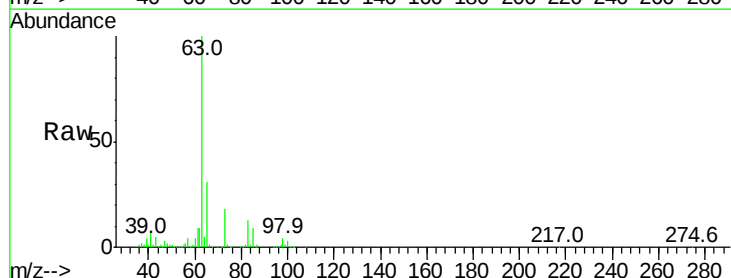
Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Tgt Ion: 63 Resp: 1589871

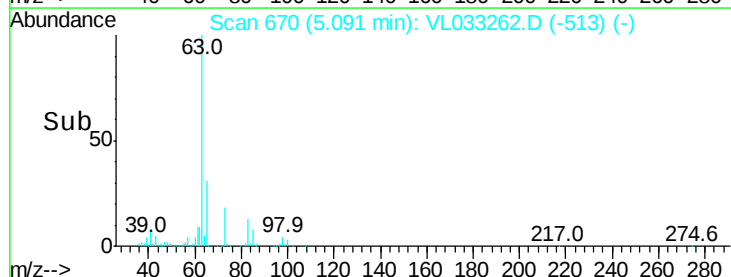
Ion	Ratio	Lower	Upper
63	100		
98	4.1	2.1	6.2
100	2.7	1.3	3.8



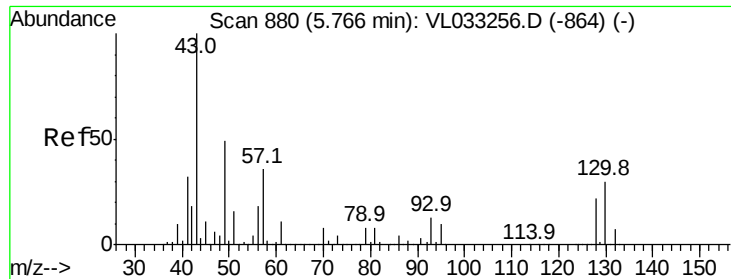
Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



Time-->

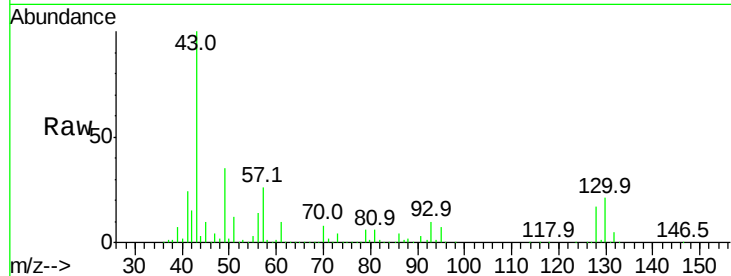


#25
Ethyl Acetate
Concen: 12.951 ppbv
RT: 5.77 min Scan# 880
Delta R.T. 0.00 min
Lab File: VL033262.D
Acq: 8 Mar 2019 16:36

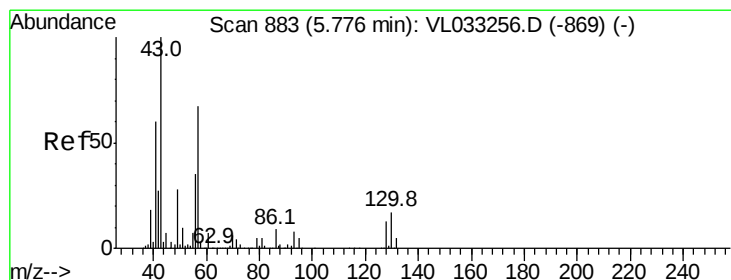
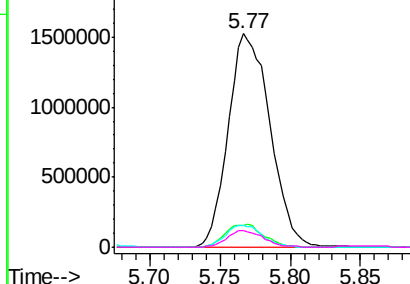
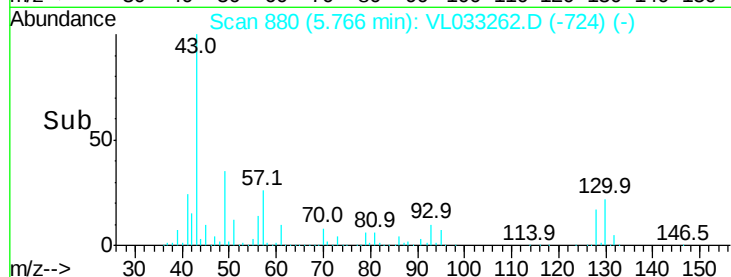
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 43 Resp: 3156130

Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.8	11.8
61	9.2	7.4	11.0
70	6.9	5.4	8.2



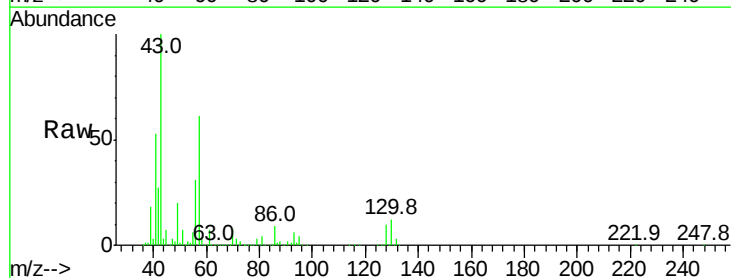
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



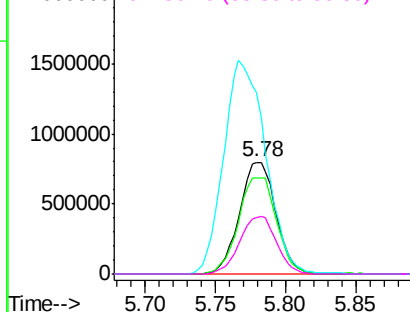
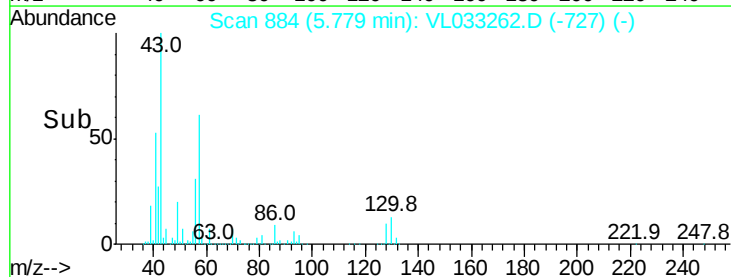
#26
Hexane
Concen: 12.673 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL033262.D
Acq: 8 Mar 2019 16:36

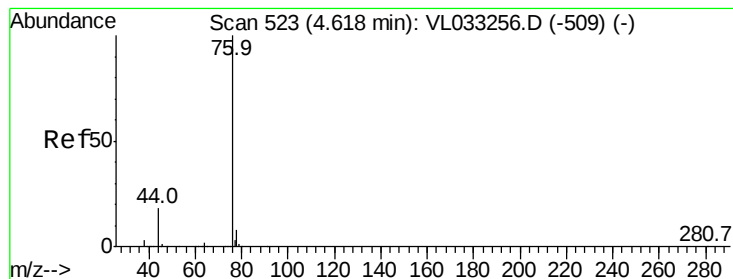
Tgt Ion: 57 Resp: 1443706

Ion	Ratio	Lower	Upper
57	100		
41	90.3	72.2	108.4
43	220.2	179.0	268.4
56	52.2	41.8	62.8



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: 14.422 ppbv

RT: 4.62 min Scan# 523

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

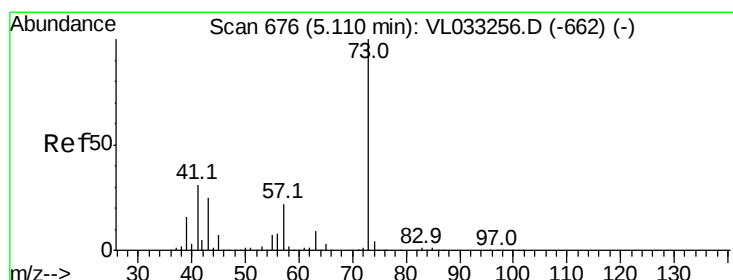
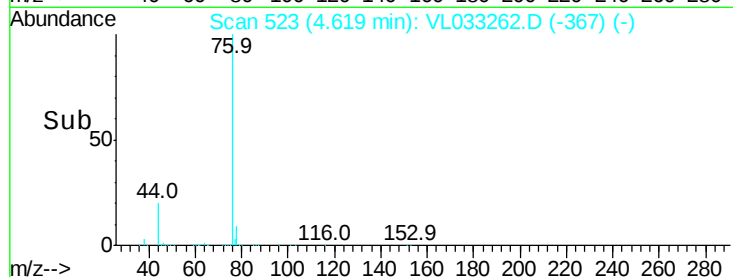
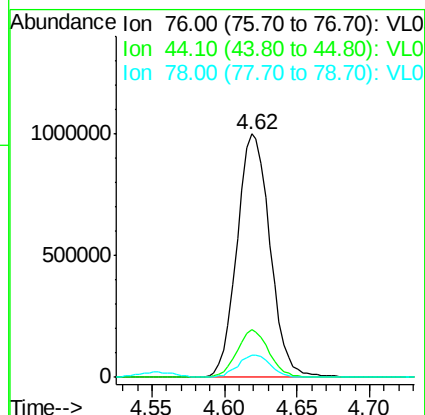
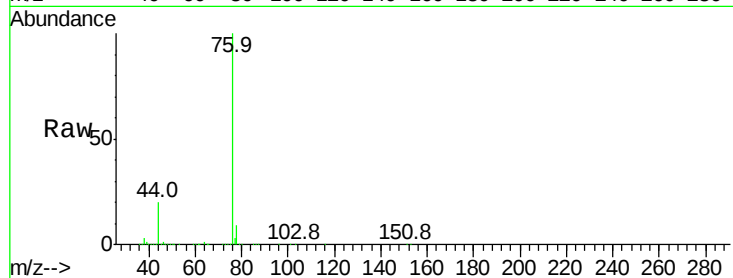
Tgt Ion: 76 Resp: 1583703

Ion Ratio Lower Upper

76 100

44 18.7 14.8 22.2

78 9.0 7.2 10.8



#28

Methyl tert-Butyl Ether

Concen: 11.653 ppbv

RT: 5.11 min Scan# 676

Delta R.T. 0.00 min

Lab File: VL033262.D

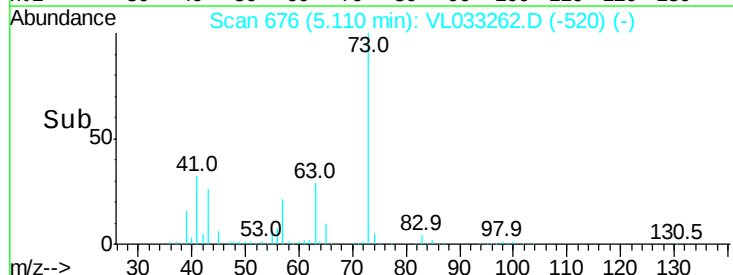
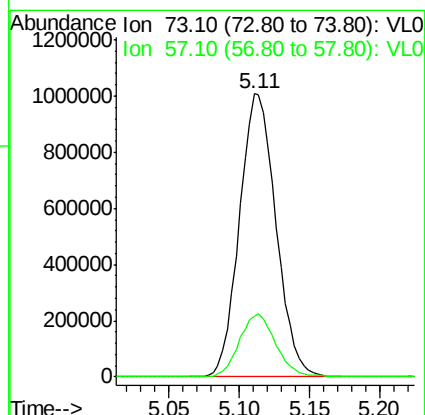
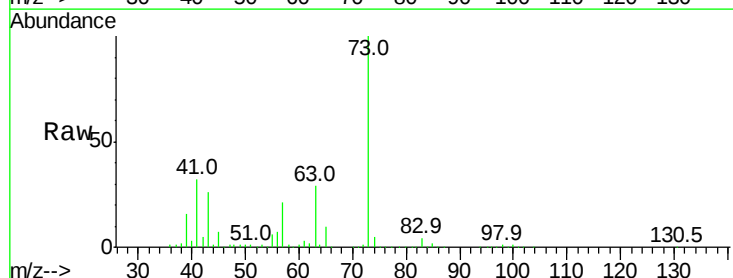
Acq: 8 Mar 2019 16:36

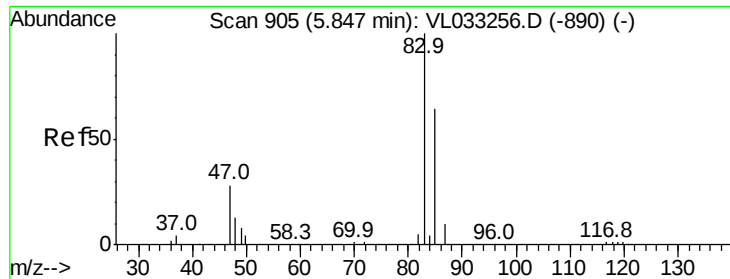
Tgt Ion: 73 Resp: 1830849

Ion Ratio Lower Upper

73 100

57 22.2 17.7 26.5

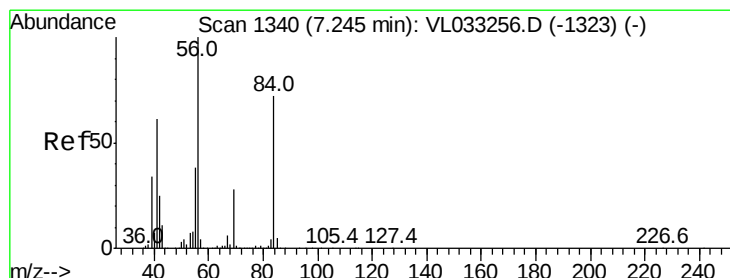
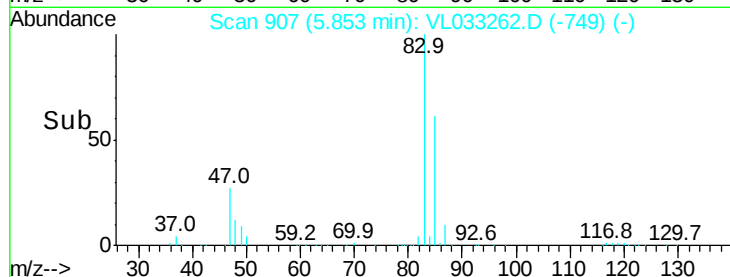
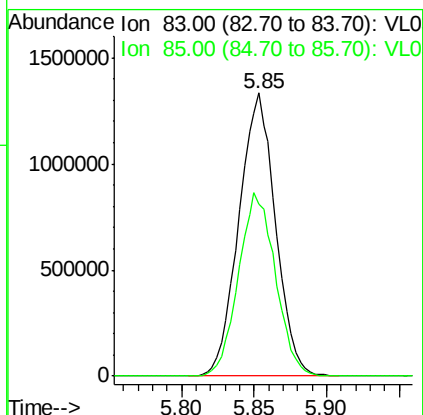
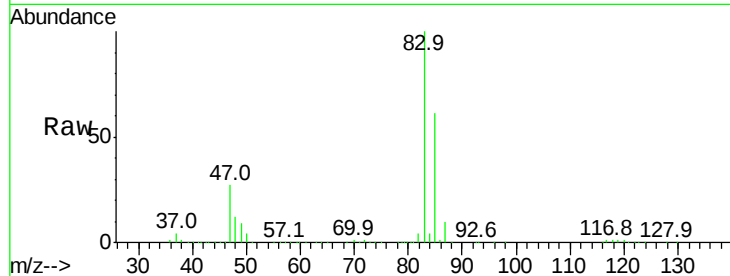




#29
Chloroform
Concen: 13.200 ppbv
RT: 5.85 min Scan# 907
Delta R.T. 0.01 min
Lab File: VL033262.D
Acq: 8 Mar 2019 16:36

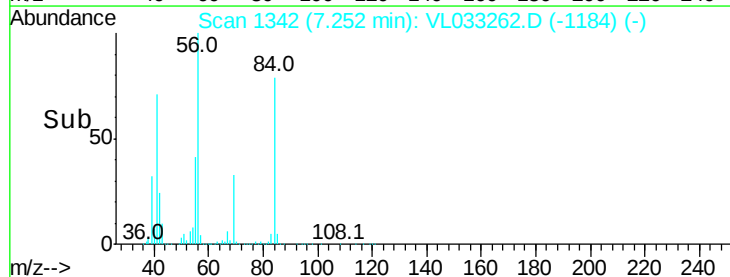
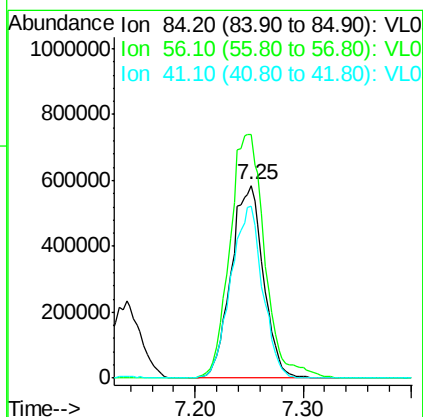
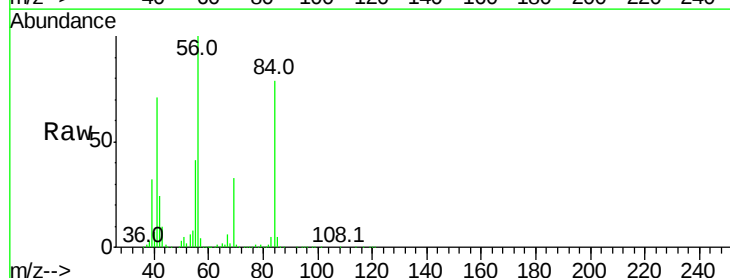
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

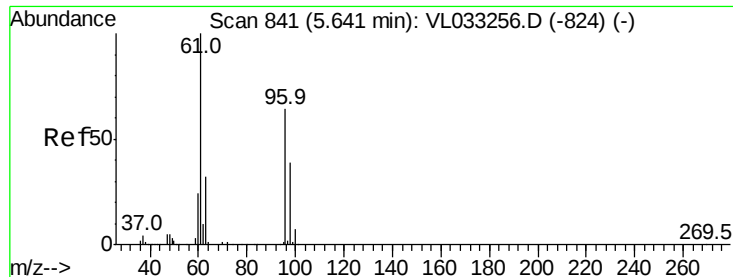
Tgt Ion: 83 Resp: 2338702
Ion Ratio Lower Upper
83 100
85 60.8 51.0 76.6



#30
Cyclohexane
Concen: 14.322 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. 0.01 min
Lab File: VL033262.D
Acq: 8 Mar 2019 16:36

Tgt Ion: 84 Resp: 1221586
Ion Ratio Lower Upper
84 100
56 136.8 113.4 170.2
41 87.5 70.2 105.4





#31

cis-1,2-Dichloroethene

Concen: 14.365 ppbv

RT: 5.64 min Scan# 842

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

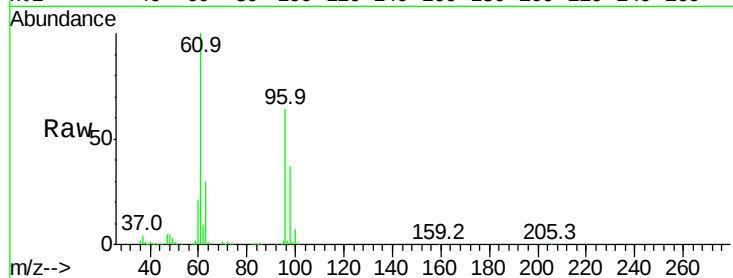
Tgt Ion: 61 Resp: 1580611

Ion Ratio Lower Upper

61 100

96 64.0 51.2 76.8

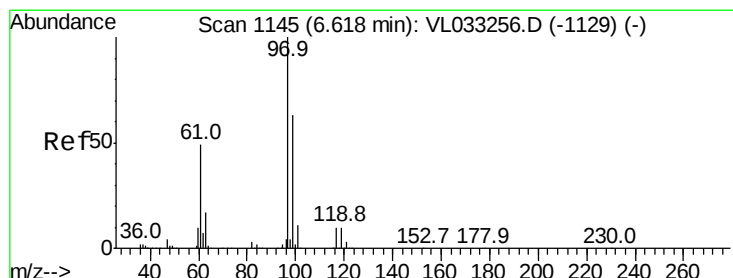
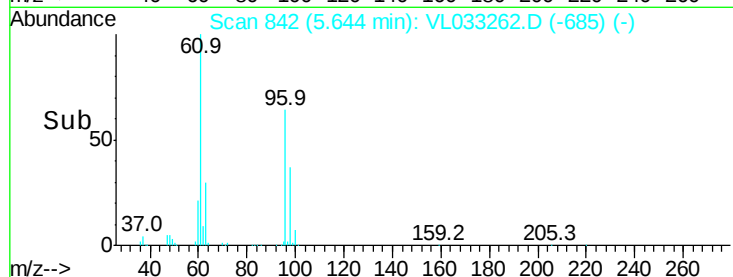
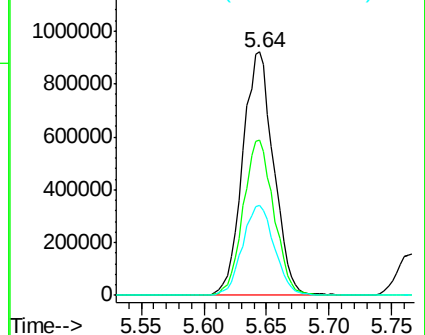
98 37.1 30.8 46.2



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: 13.887 ppbv

RT: 6.62 min Scan# 1146

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

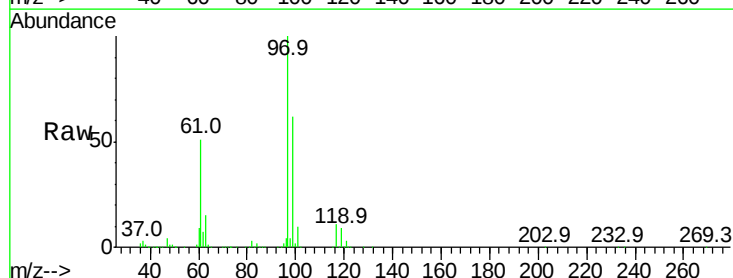
Tgt Ion: 97 Resp: 2386866

Ion Ratio Lower Upper

97 100

99 65.6 51.6 77.4

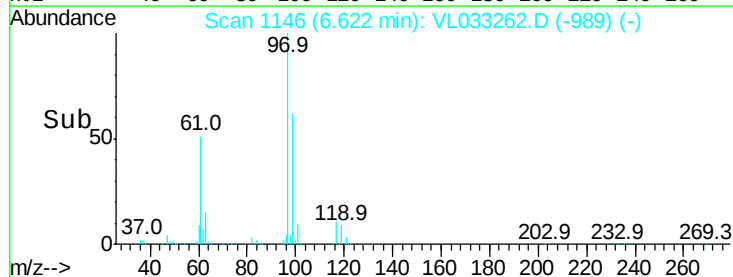
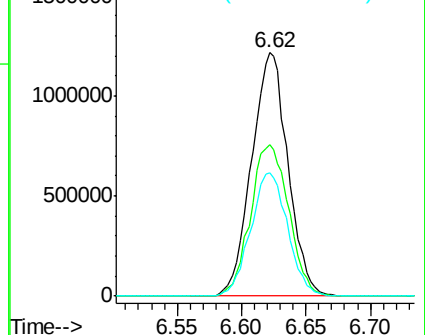
61 51.6 40.8 61.2

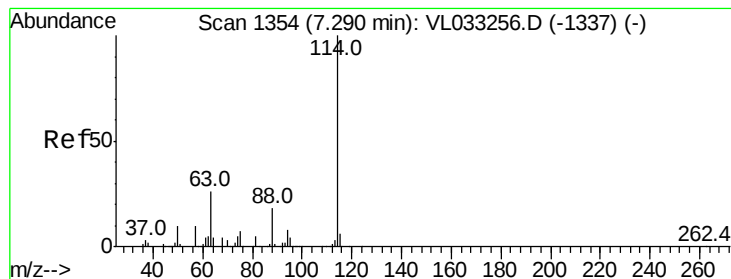


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 7.29 min Scan# 1355

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

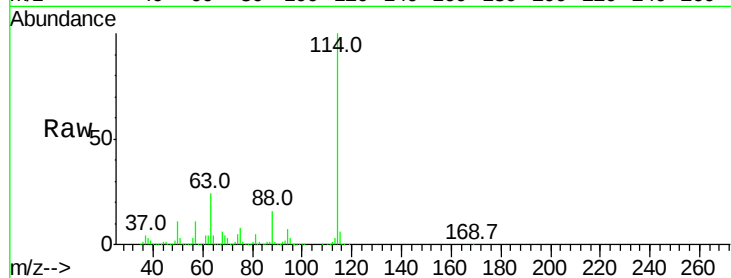
Tgt Ion:114 Resp: 2389318

Ion Ratio Lower Upper

114 100

63 27.5 22.2 33.2

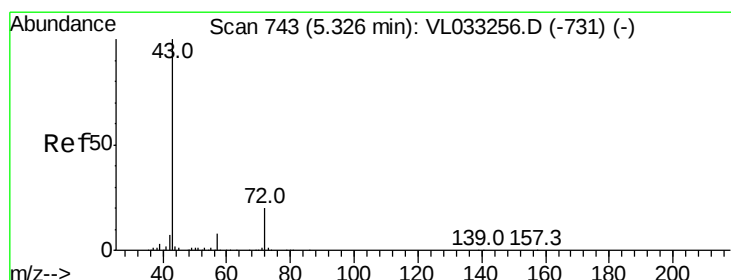
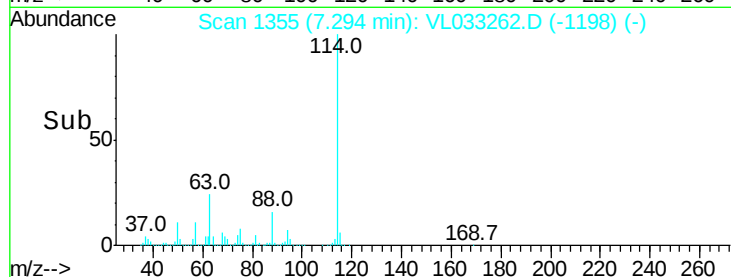
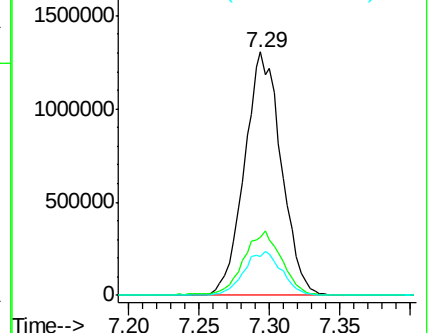
88 18.5 14.6 22.0



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: 11.149 ppbv

RT: 5.33 min Scan# 744

Delta R.T. 0.00 min

Lab File: VL033262.D

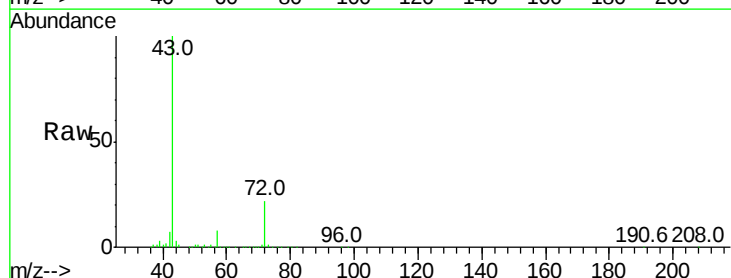
Acq: 8 Mar 2019 16:36

Tgt Ion: 43 Resp: 1845788

Ion Ratio Lower Upper

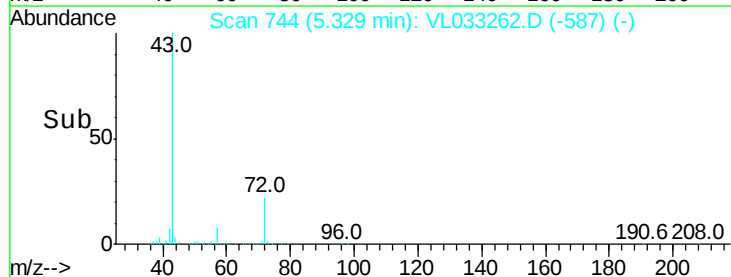
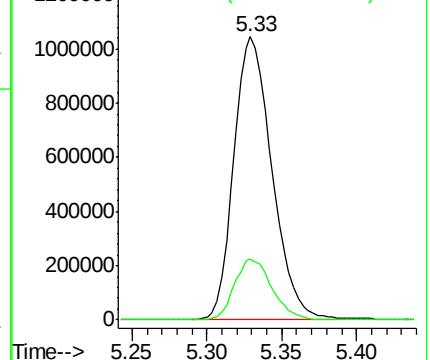
43 100

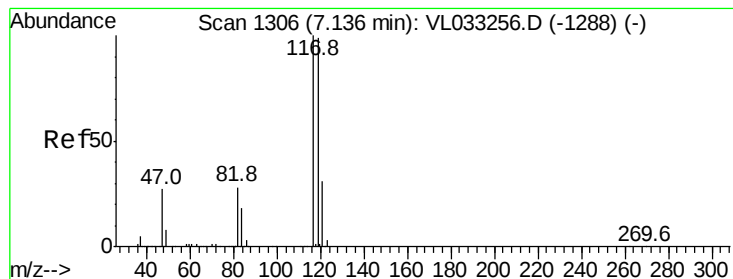
72 21.3 16.9 25.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 4.966 ppbv

RT: 7.14 min Scan# 1308

Delta R.T. 0.01 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

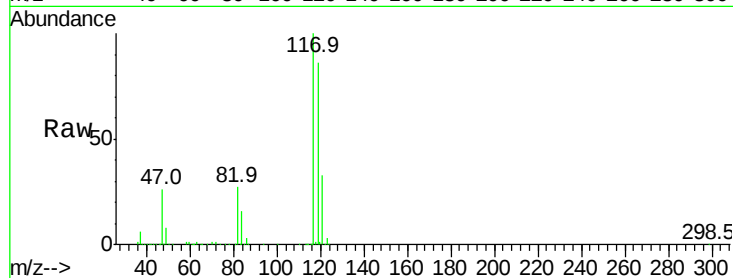
Tgt Ion:117 Resp: 897487

Ion Ratio Lower Upper

117 100

119 85.4 79.0 118.6

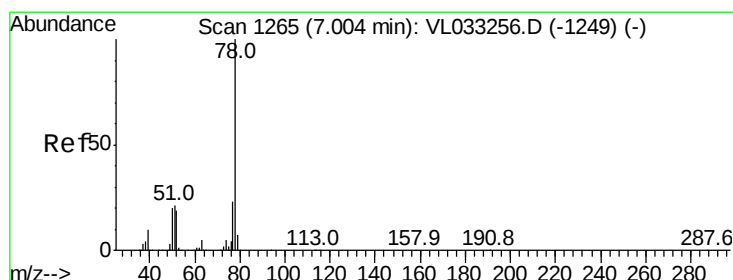
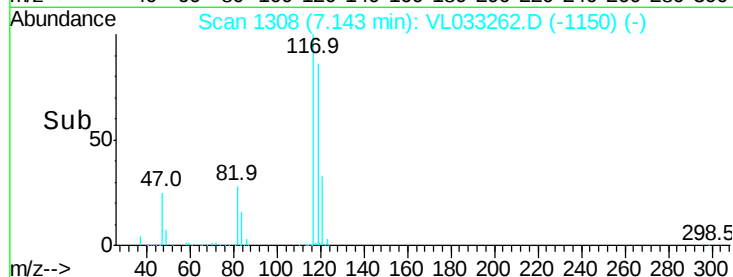
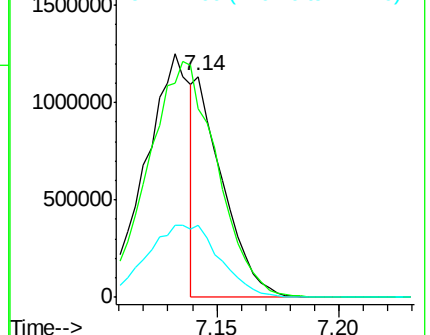
121 32.9 24.7 37.1



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: 13.596 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

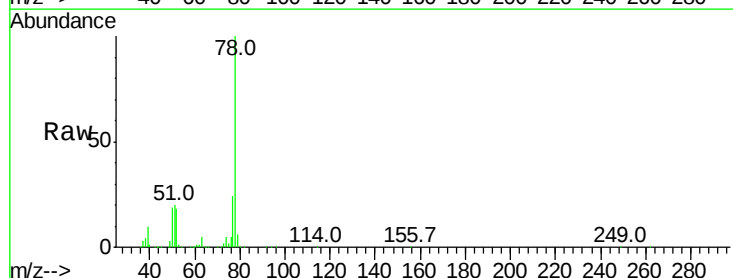
Tgt Ion: 78 Resp: 3048887

Ion Ratio Lower Upper

78 100

77 23.7 18.2 27.2

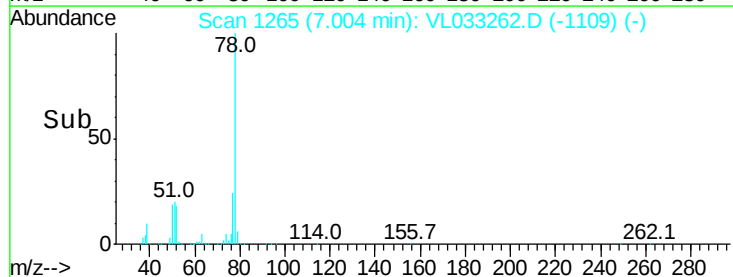
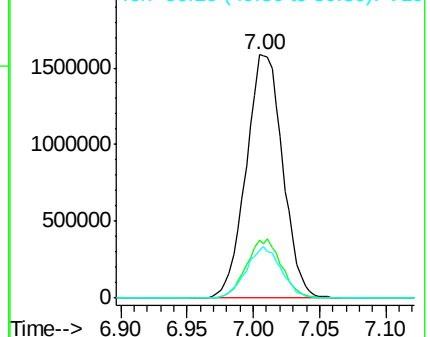
50 19.5 16.2 24.2

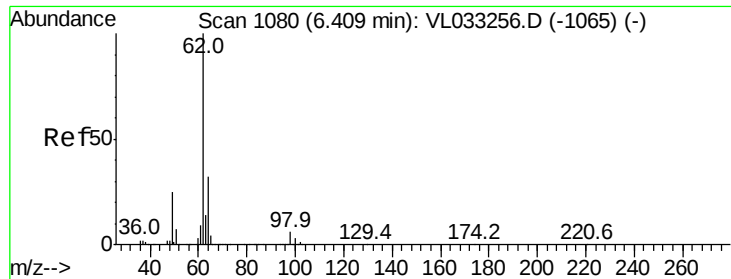


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

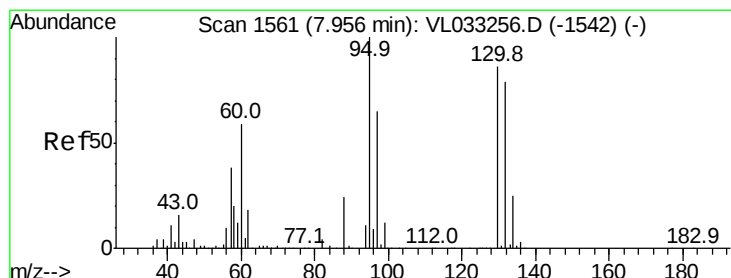
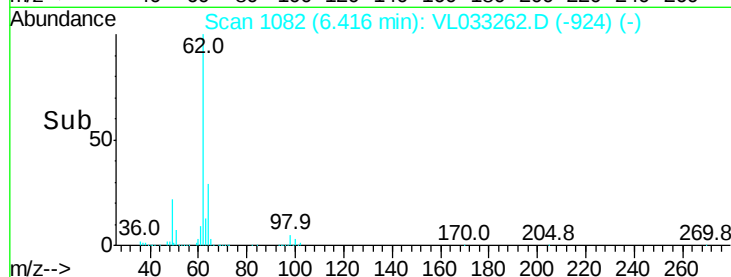
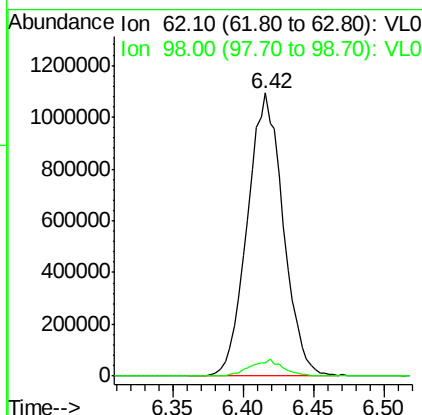
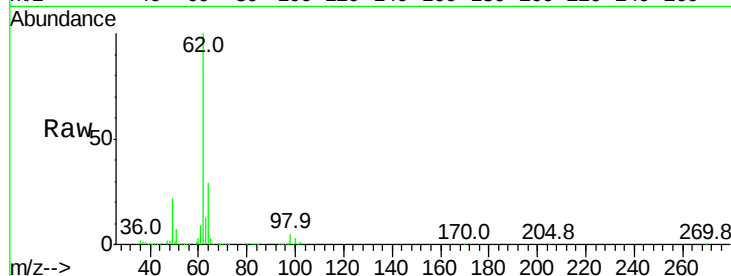




#37
 1,2-Dichloroethane
 Concen: 13.938 ppbv
 RT: 6.42 min Scan# 1082
 Delta R.T. 0.01 min
 Lab File: VL033262.D
 Acq: 8 Mar 2019 16:36

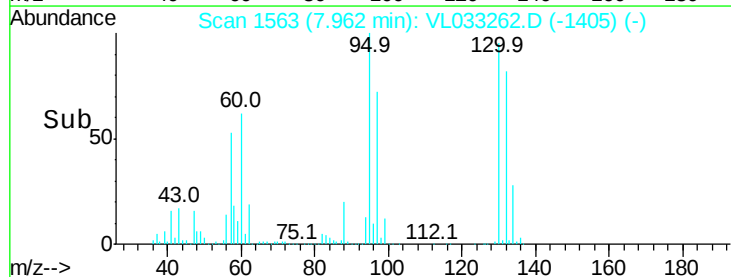
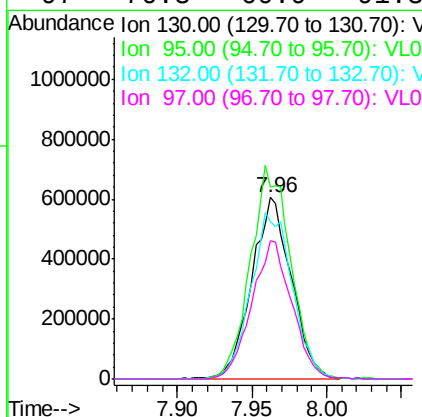
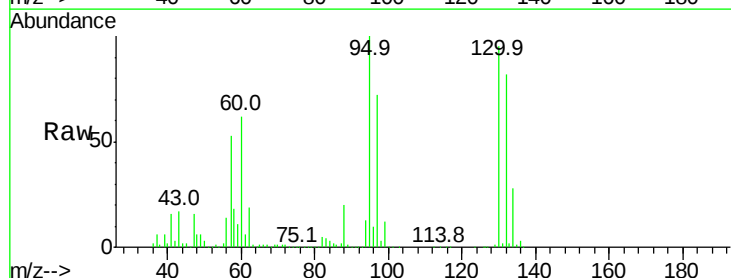
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

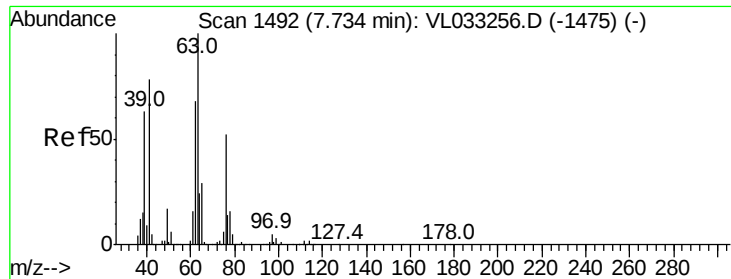
Tgt Ion: 62 Resp: 194544
 Ion Ratio Lower Upper
 62 100
 98 5.3 4.5 6.7



#38
 Trichloroethene
 Concen: 13.163 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. 0.01 min
 Lab File: VL033262.D
 Acq: 8 Mar 2019 16:36

Tgt Ion: 130 Resp: 1114787
 Ion Ratio Lower Upper
 130 100
 95 105.7 93.4 140.0
 132 86.8 74.0 111.0
 97 76.3 60.9 91.3





#39

1,2-Dichloropropane

Concen: 13.290 ppbv

RT: 7.74 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

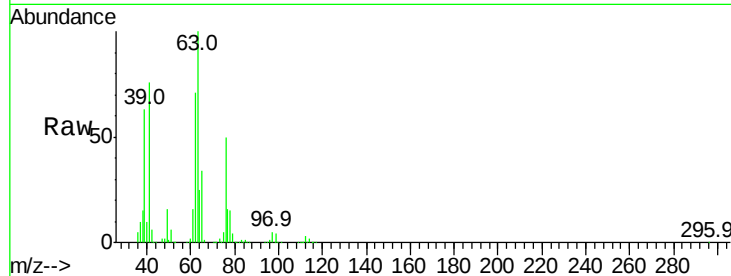
Tgt Ion: 63 Resp: 1163617

Ion Ratio Lower Upper

63 100

41 76.3 62.6 94.0

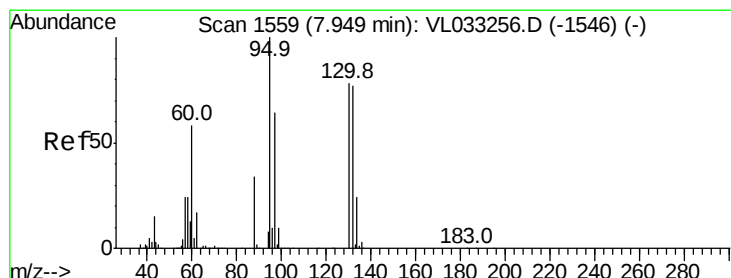
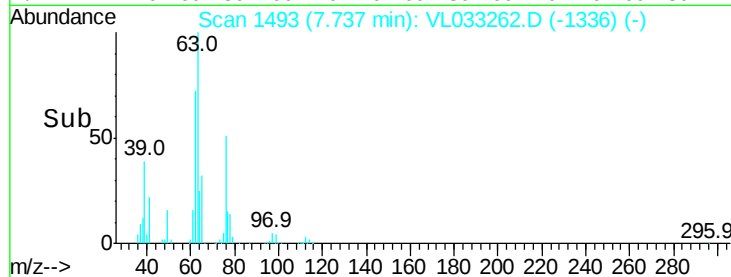
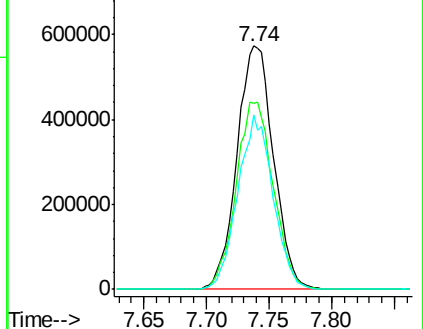
62 71.4 54.6 81.8



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 6.924 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. 0.01 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Tgt Ion: 88 Resp: 224912

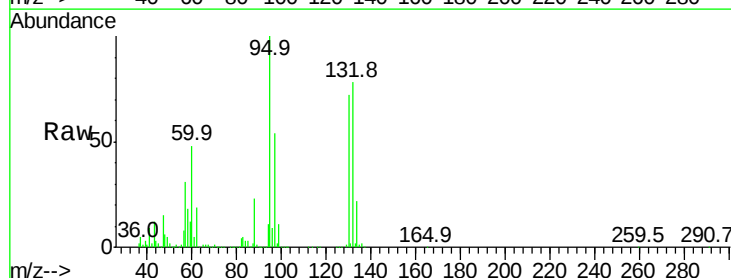
Ion Ratio Lower Upper

88 100

58 233.5 108.4 162.6#

43 507.1 232.3 348.5#

57 2223.2 1007.8 1511.8#

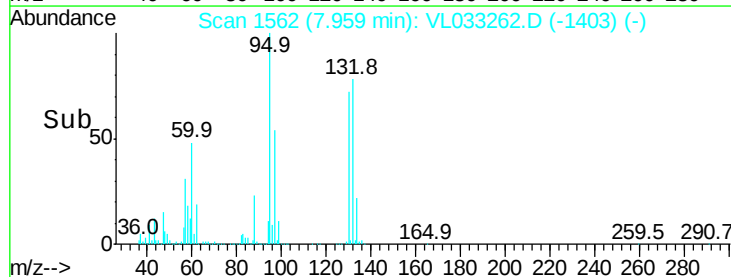
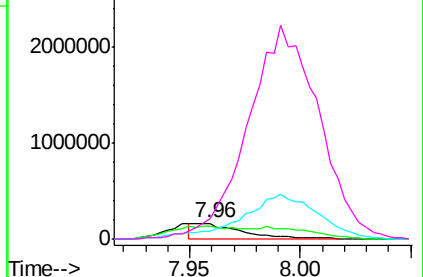


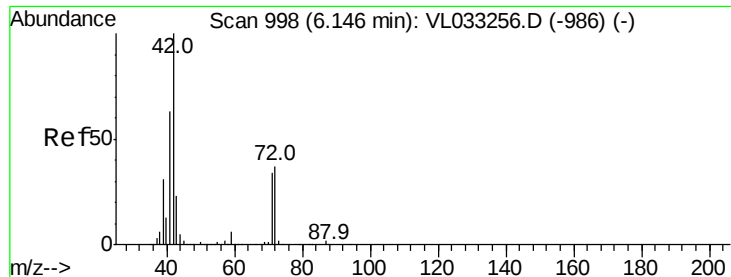
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 13.643 ppbv

RT: 6.15 min Scan# 998

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

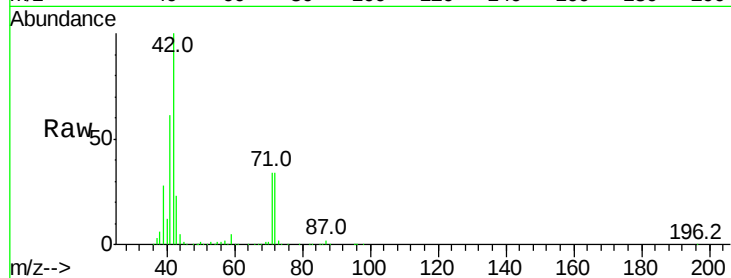
Tgt Ion: 42 Resp: 1240869

Ion Ratio Lower Upper

42 100

72 38.3 30.2 45.2

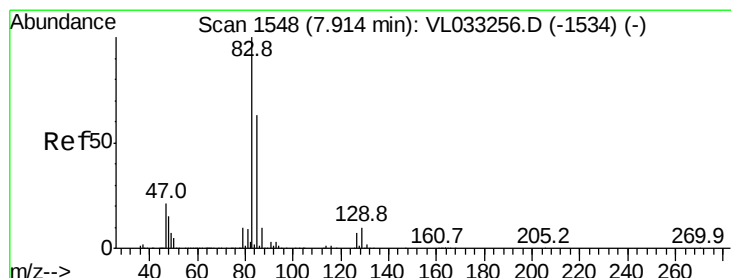
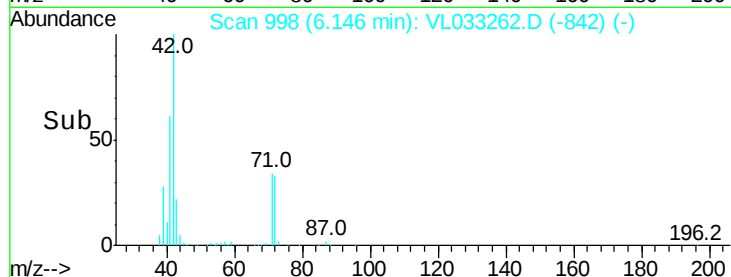
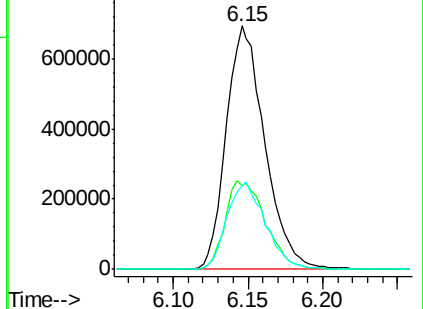
71 36.2 29.0 43.6



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 13.519 ppbv

RT: 7.92 min Scan# 1550

Delta R.T. 0.01 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

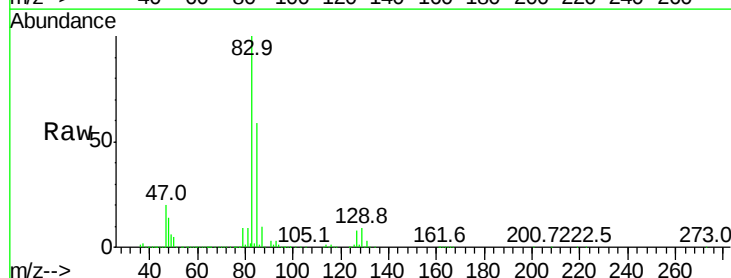
Tgt Ion: 83 Resp: 2668350

Ion Ratio Lower Upper

83 100

85 58.6 50.1 75.1

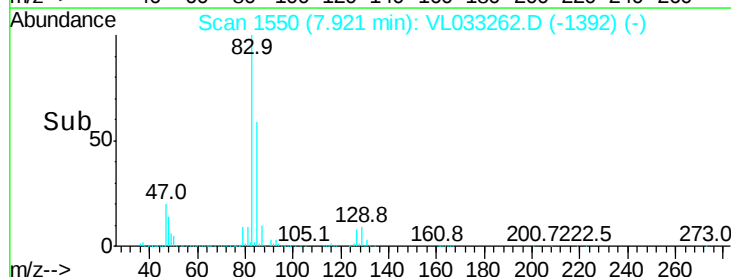
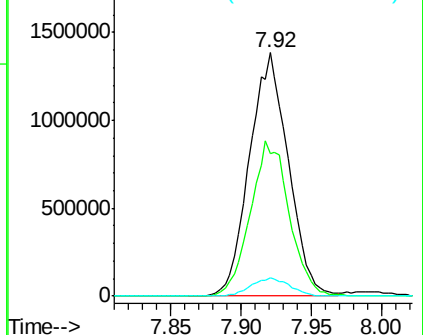
127 7.7 5.9 8.9

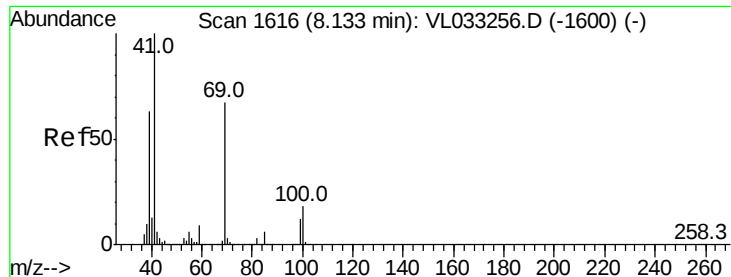


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

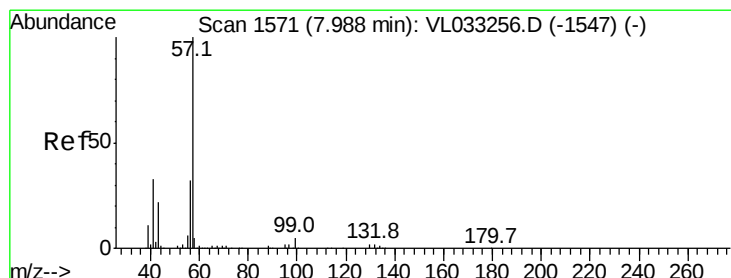
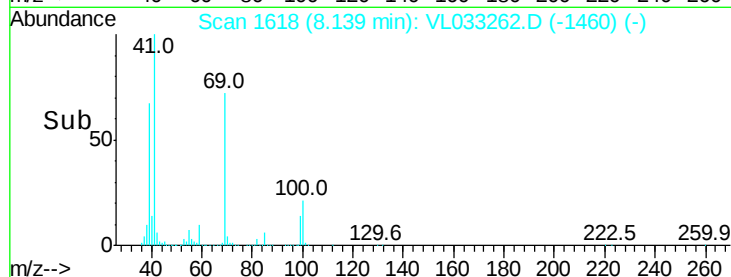
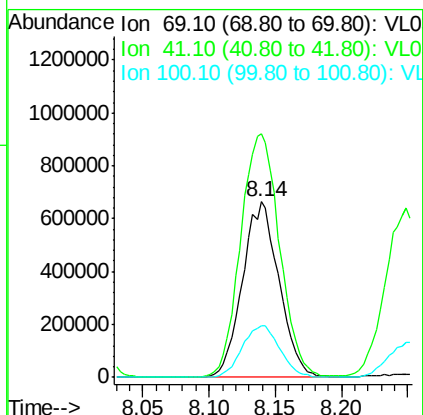
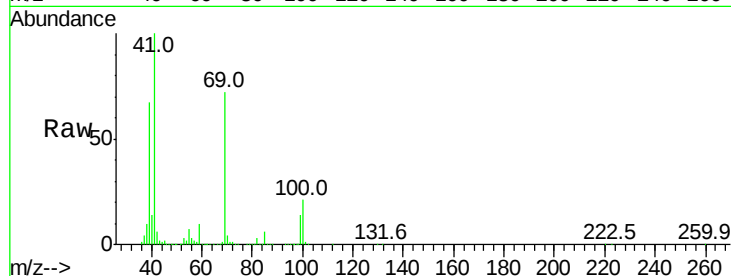




#43
Methyl Methacrylate
Concen: 14.053 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. 0.01 min
Lab File: VL033262.D
Acq: 8 Mar 2019 16:36

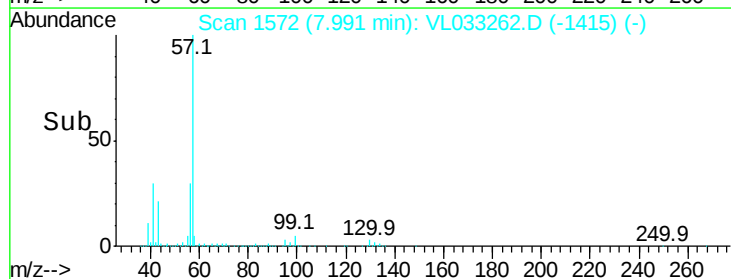
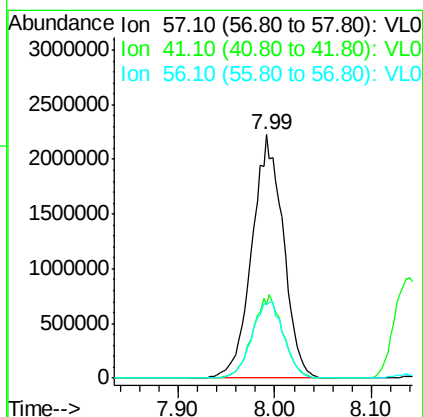
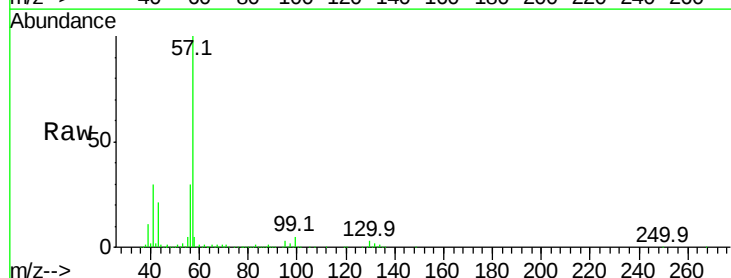
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

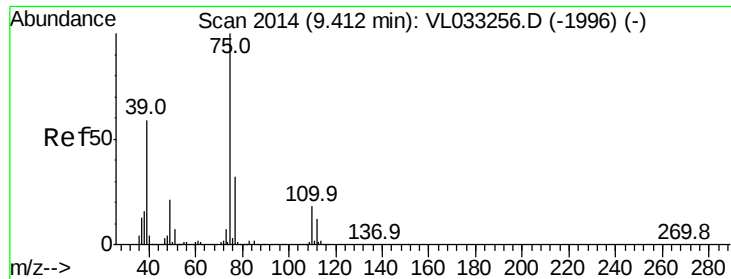
Tgt Ion: 69 Resp: 1274904
Ion Ratio Lower Upper
69 100
41 147.4 120.3 180.5
100 30.3 23.5 35.3



#44
2,2,4-Trimethylpentane
Concen: 12.599 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VL033262.D
Acq: 8 Mar 2019 16:36

Tgt Ion: 57 Resp: 4996153
Ion Ratio Lower Upper
57 100
41 32.9 26.4 39.6
56 31.8 25.1 37.7





#45

t-1,3-Dichloropropene

Concen: 15.254 ppbv

RT: 9.42 min Scan# 2016

Delta R.T. 0.01 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Instrument :

MSVOA_L

ClientSampleId :

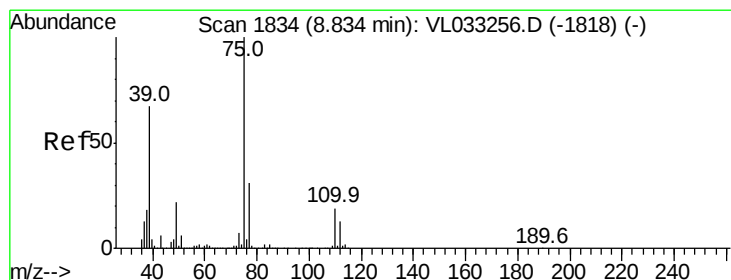
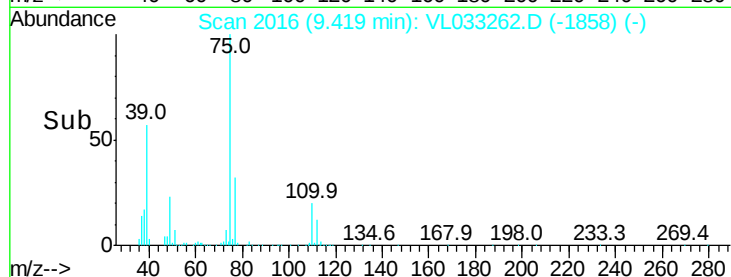
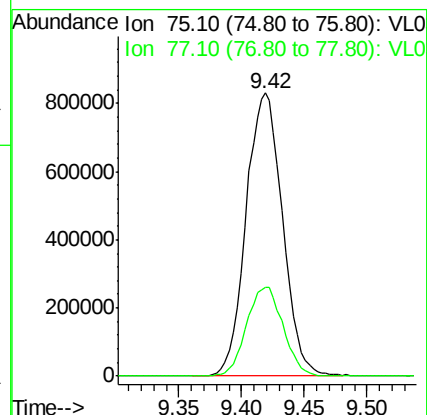
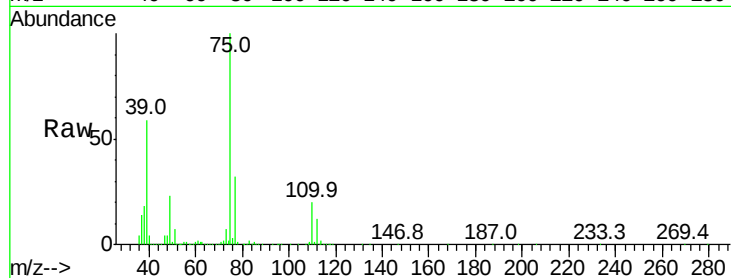
VSTDIC015

Tgt Ion: 75 Resp: 1674569

Ion Ratio Lower Upper

75 100

77 31.6 25.4 38.0



#46

cis-1,3-Dichloropropene

Concen: 14.448 ppbv

RT: 8.84 min Scan# 1836

Delta R.T. 0.01 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

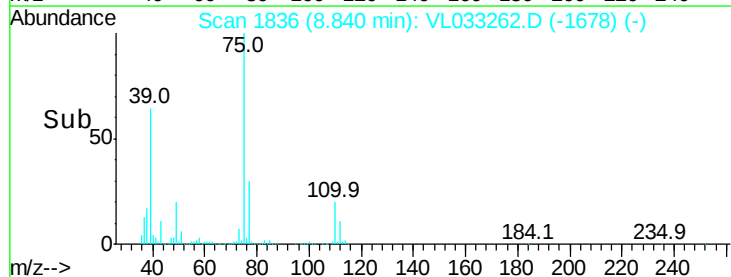
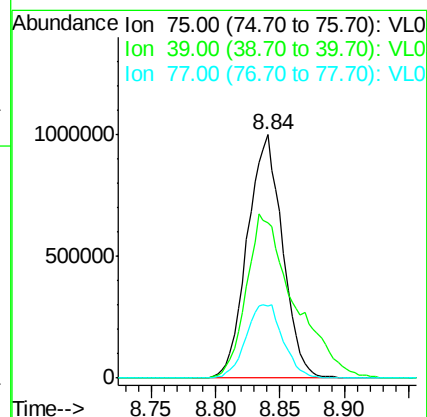
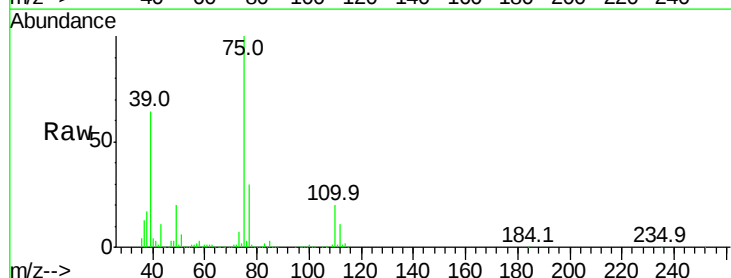
Tgt Ion: 75 Resp: 1891917

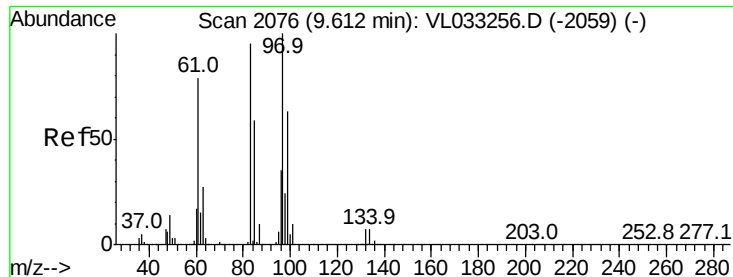
Ion Ratio Lower Upper

75 100

39 63.8 53.8 80.6

77 29.8 25.0 37.6

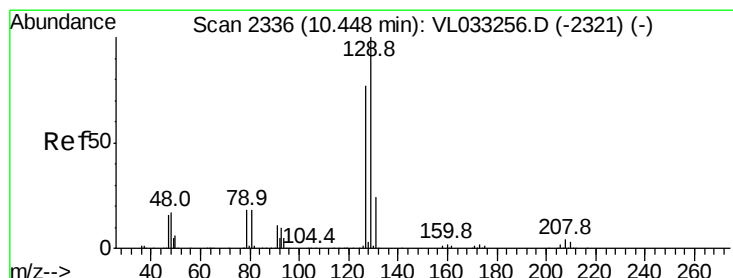
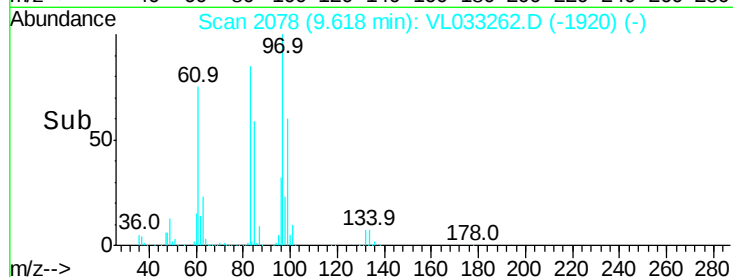
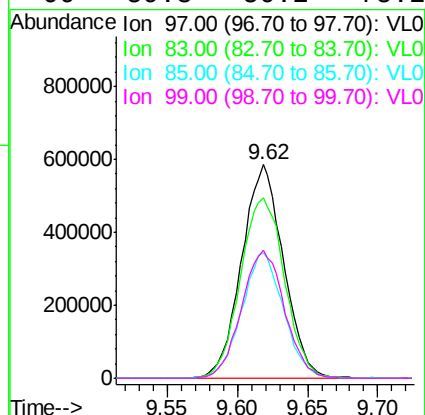
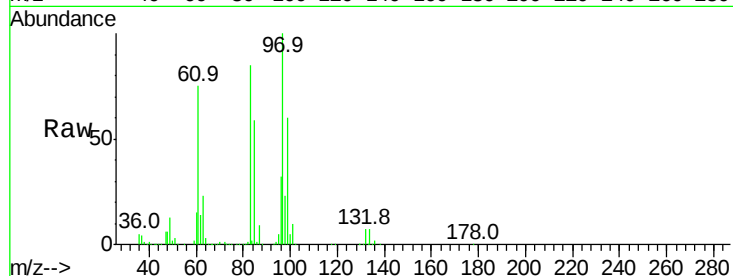




#47
 1,1,2-Trichloroethane
 Concen: 12.878 ppbv
 RT: 9.62 min Scan# 2078
 Delta R.T. 0.01 min
 Lab File: VL033262.D
 Acq: 8 Mar 2019 16:36

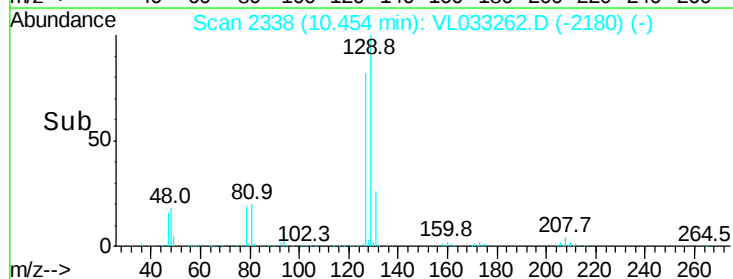
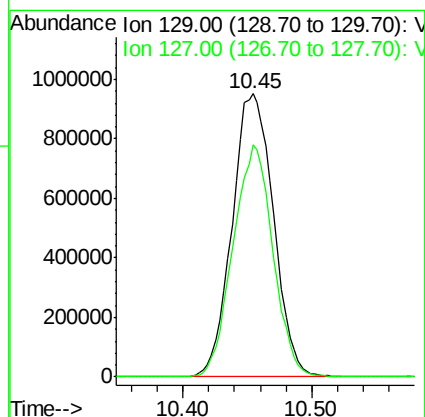
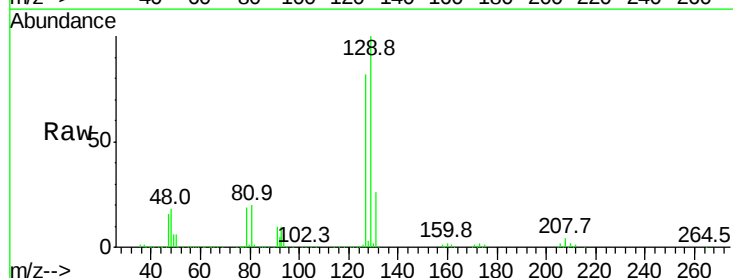
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

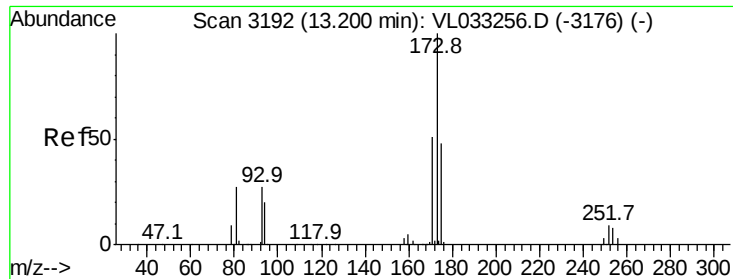
Tgt Ion: 97 Resp: 1213464
 Ion Ratio Lower Upper
 97 100
 83 84.6 75.8 113.8
 85 58.5 47.5 71.3
 99 59.8 50.2 75.2



#48
 Dibromochloromethane
 Concen: 13.882 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. 0.01 min
 Lab File: VL033262.D
 Acq: 8 Mar 2019 16:36

Tgt Ion: 129 Resp: 2118774
 Ion Ratio Lower Upper
 129 100
 127 79.0 39.4 118.2





#49

Bromoform

Concen: 15.188 ppbv

RT: 13.20 min Scan# 3193

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

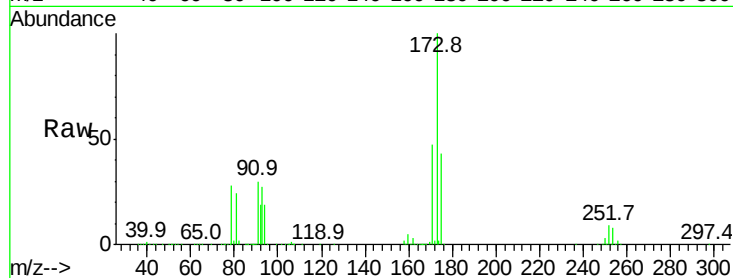
Tgt Ion:173 Resp: 1851248

Ion Ratio Lower Upper

173 100

175 46.7 38.8 58.2

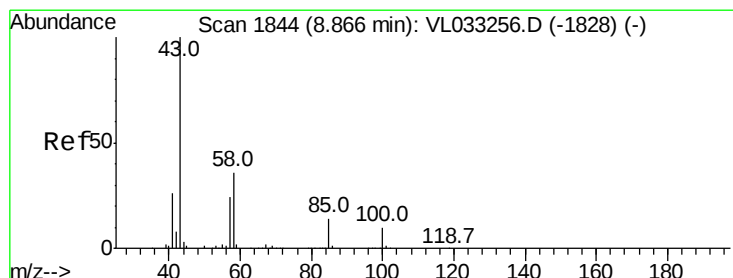
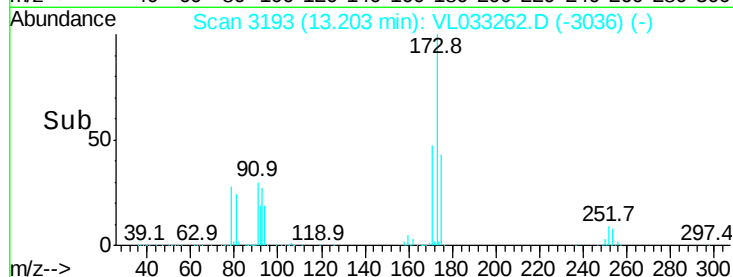
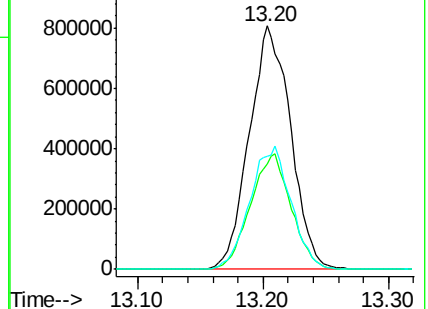
171 50.1 41.5 62.3



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: 12.769 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. 0.00 min

Lab File: VL033262.D

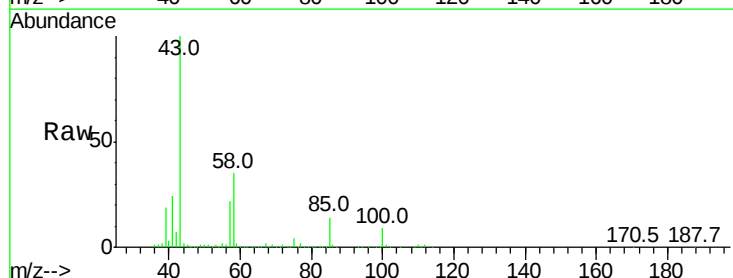
Acq: 8 Mar 2019 16:36

Tgt Ion: 43 Resp: 3126702

Ion Ratio Lower Upper

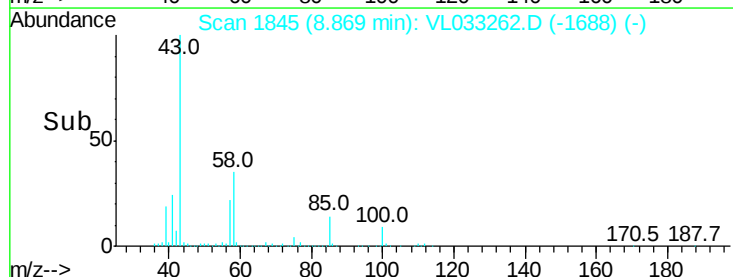
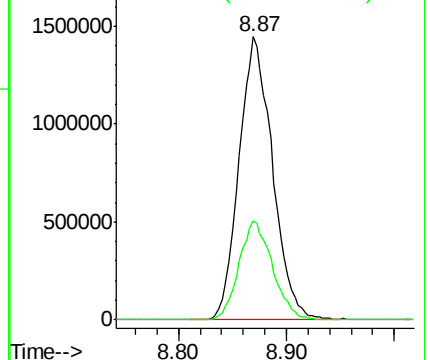
43 100

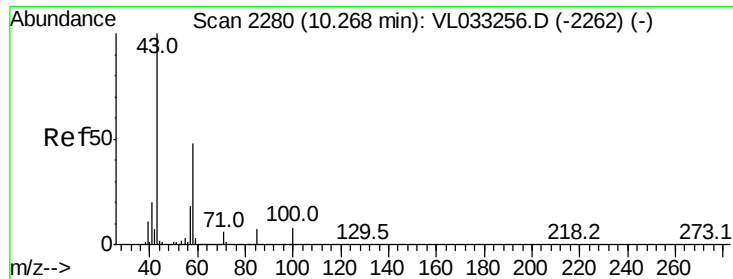
58 35.0 28.1 42.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 13.374 ppbv

RT: 10.27 min Scan# 2281

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

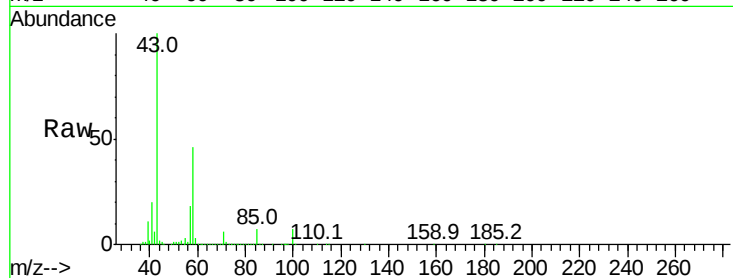
Tgt Ion: 43 Resp: 2449602

Ion Ratio Lower Upper

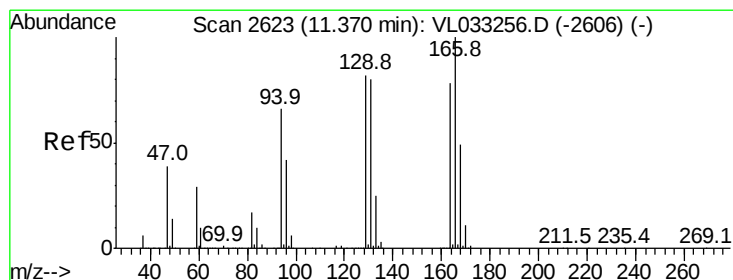
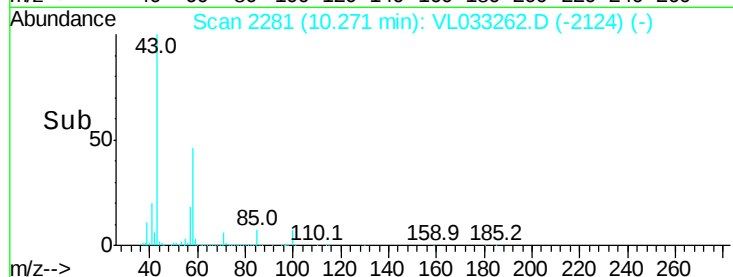
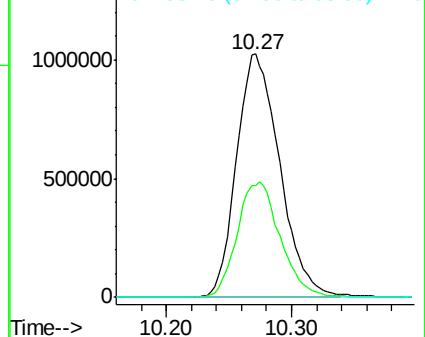
43 100

58 47.4 38.1 57.1

98 0.2 0.2 0.4#



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: 13.244 ppbv

RT: 11.37 min Scan# 2624

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Tgt Ion: 164 Resp: 1106876

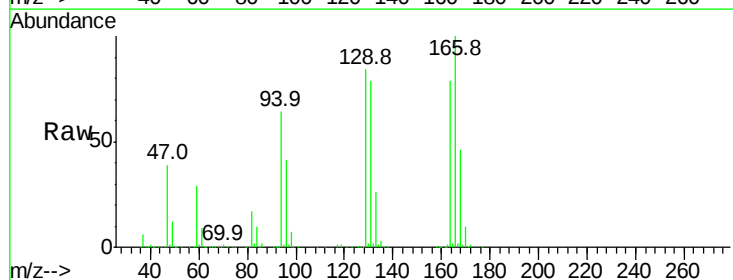
Ion Ratio Lower Upper

164 100

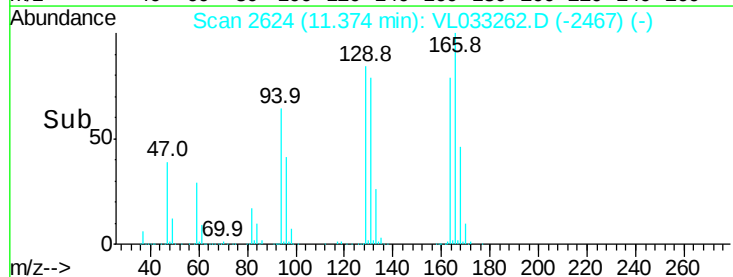
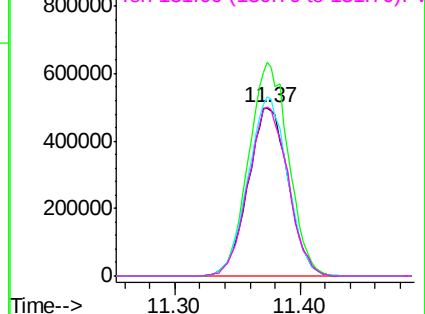
166 127.0 102.0 153.0

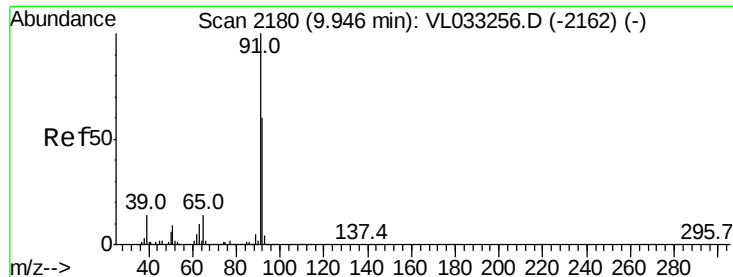
129 106.3 83.2 124.8

131 100.3 81.4 122.0



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: 13.376 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. 0.01 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Instrument :

MSVOA_L

ClientSampleId :

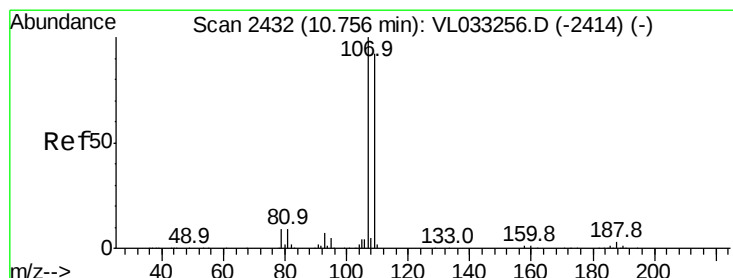
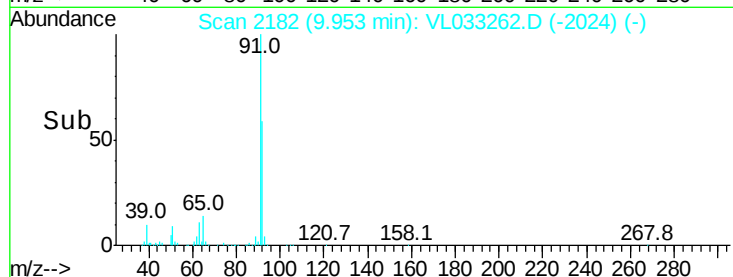
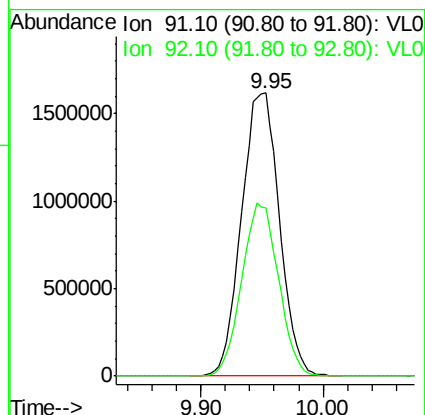
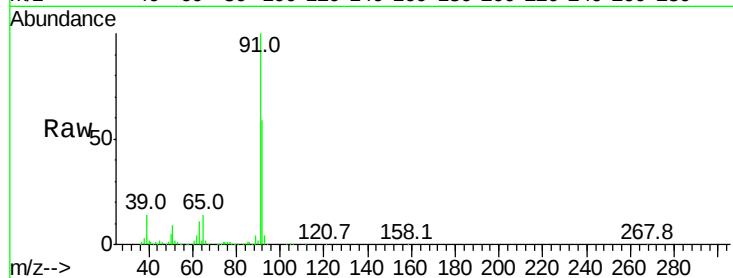
VSTDIC015

Tgt Ion: 91 Resp: 3468098

Ion Ratio Lower Upper

91 100

92 59.2 47.7 71.5



#54

1,2-Dibromoethane

Concen: 8.428 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. 0.00 min

Lab File: VL033262.D

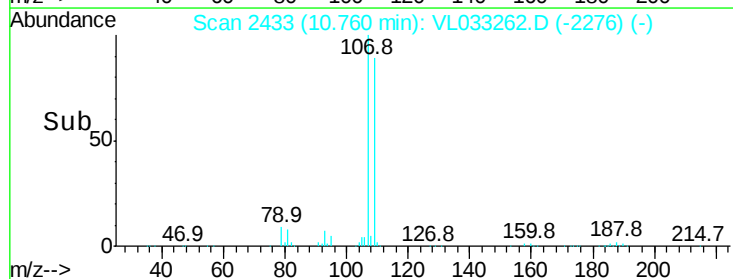
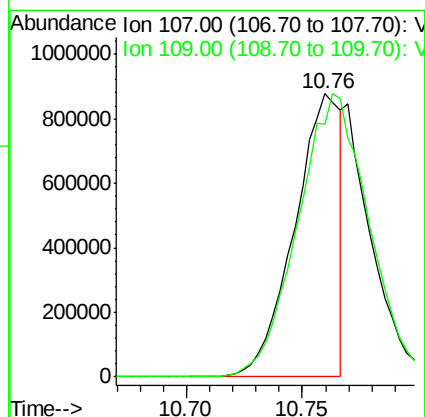
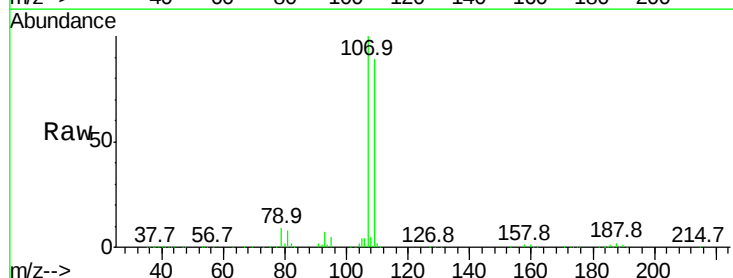
Acq: 8 Mar 2019 16:36

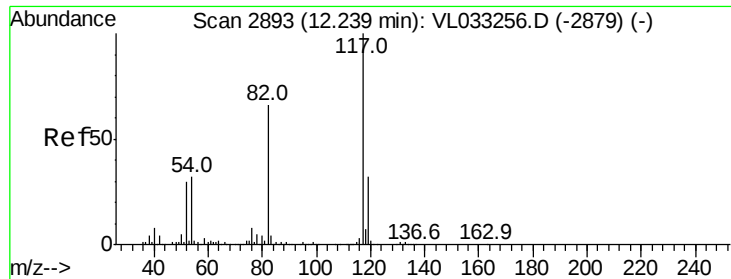
Tgt Ion: 107 Resp: 1206389

Ion Ratio Lower Upper

107 100

109 89.4 73.9 110.9

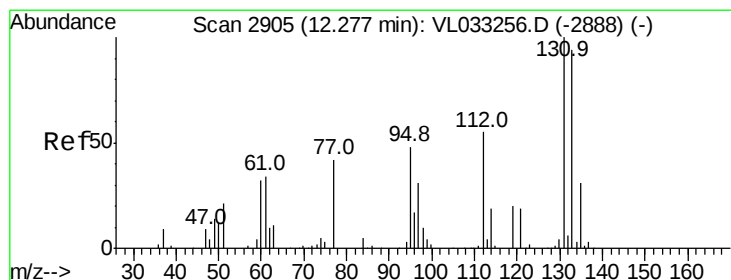
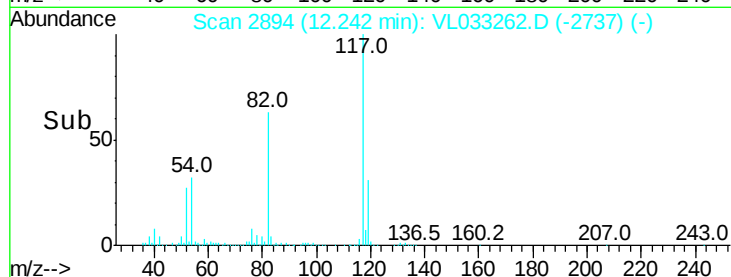
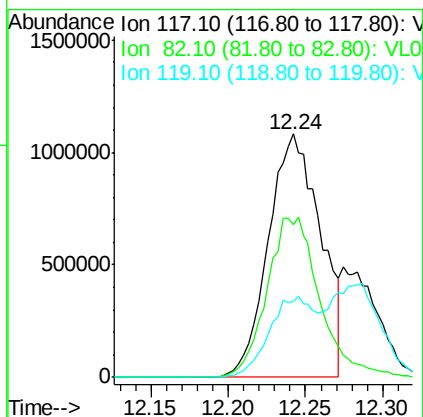
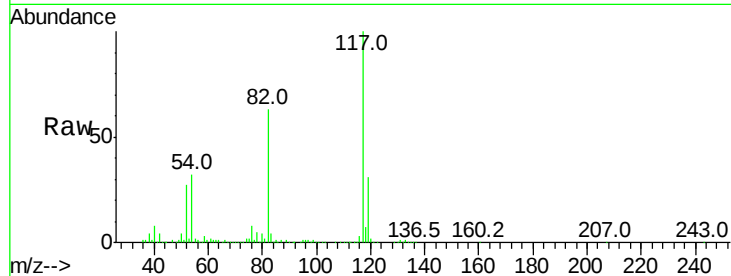




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. 0.00 min
Lab File: VL033262.D
Acq: 8 Mar 2019 16:36

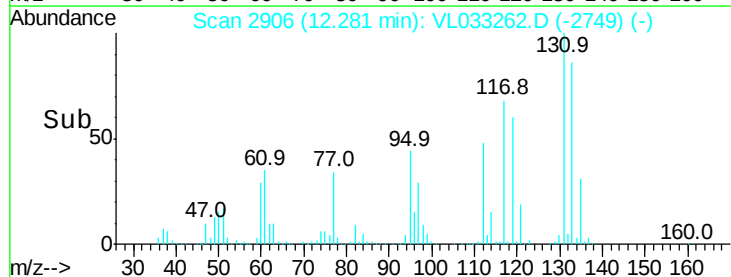
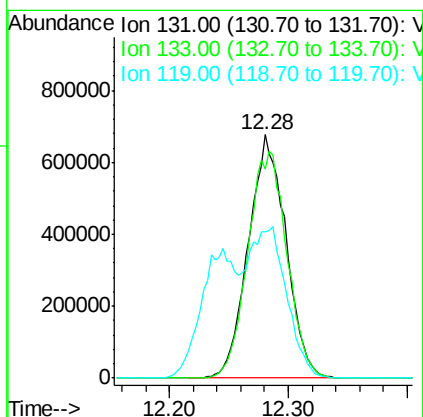
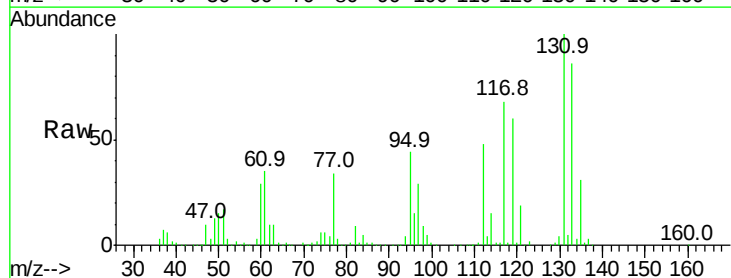
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

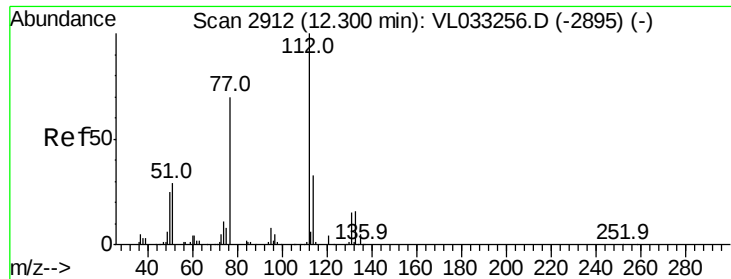
Tgt Ion:117 Resp: 2543188
Ion Ratio Lower Upper
117 100
82 66.8 52.2 78.4
119 26.4 43.4 65.2#



#56
1,1,1,2-Tetrachloroethane
Concen: 13.357 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. 0.00 min
Lab File: VL033262.D
Acq: 8 Mar 2019 16:36

Tgt Ion:131 Resp: 1474625
Ion Ratio Lower Upper
131 100
133 97.2 76.3 114.5
119 115.0 109.2 163.8





#57

Chlorobenzene

Concen: 12.532 ppbv

RT: 12.30 min Scan# 2913

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

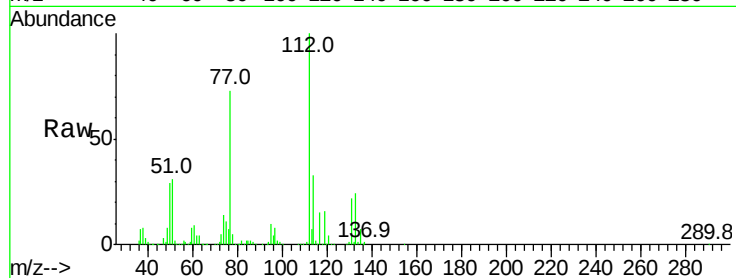
Tgt Ion: 112 Resp: 2481446

Ion Ratio Lower Upper

112 100

77 73.0 56.8 85.2

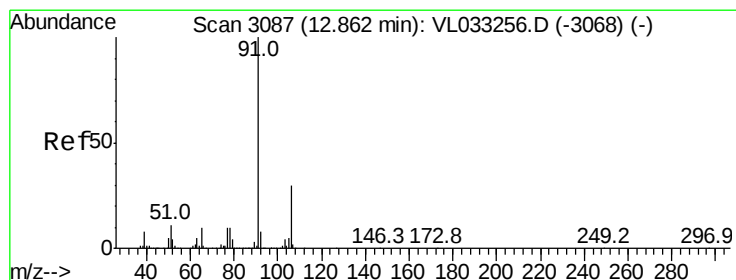
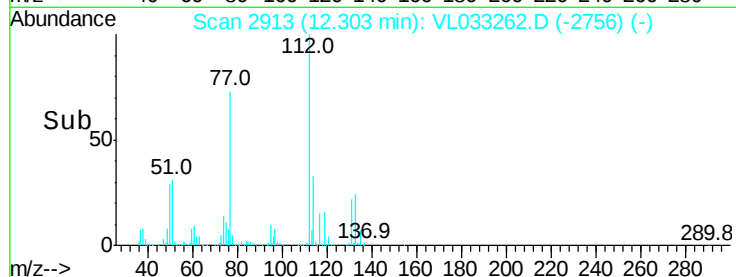
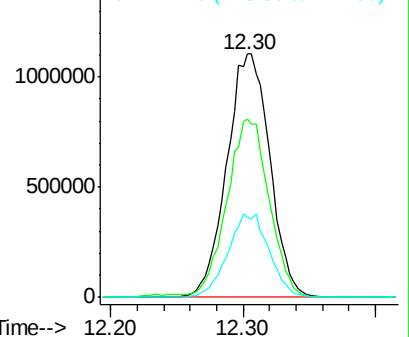
114 32.6 29.5 36.1



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



#58

Ethyl Benzene

Concen: 13.727 ppbv

RT: 12.87 min Scan# 3088

Delta R.T. 0.00 min

Lab File: VL033262.D

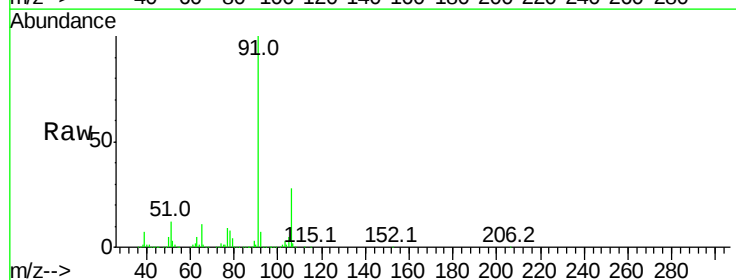
Acq: 8 Mar 2019 16:36

Tgt Ion: 91 Resp: 4828693

Ion Ratio Lower Upper

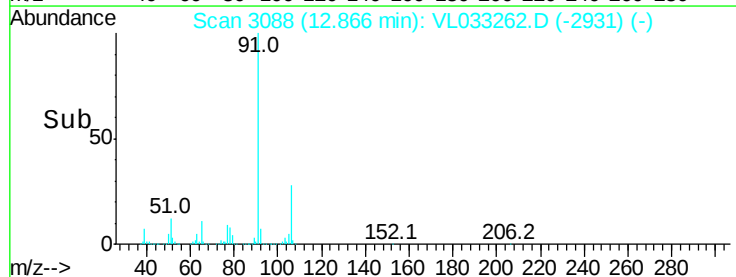
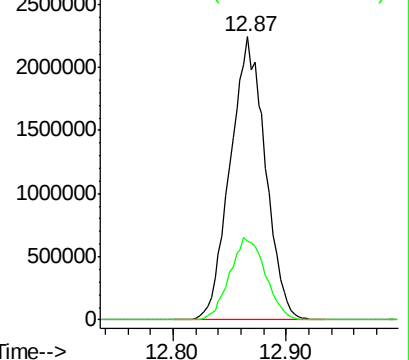
91 100

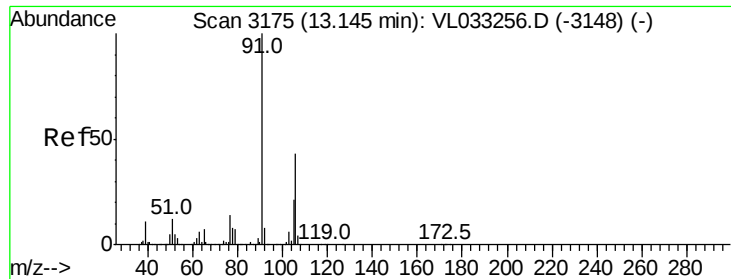
106 27.8 23.7 35.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

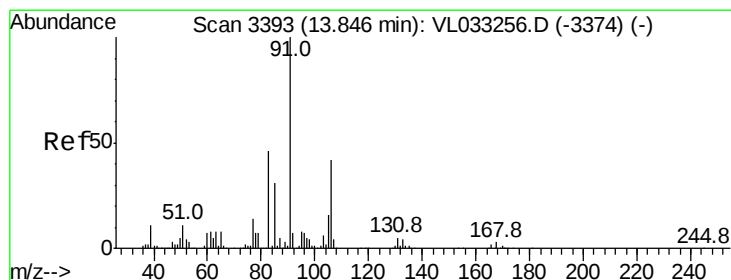
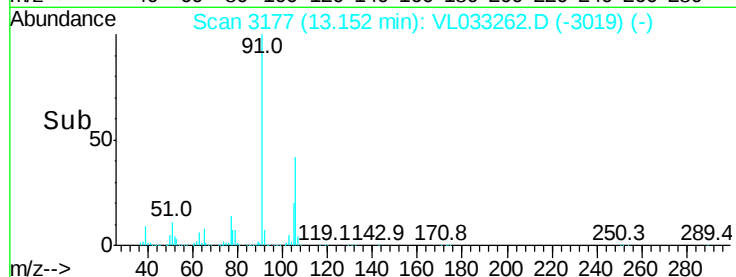
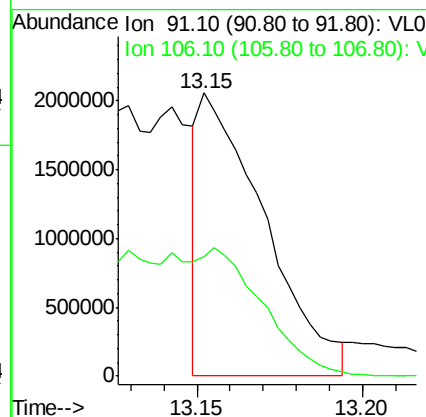
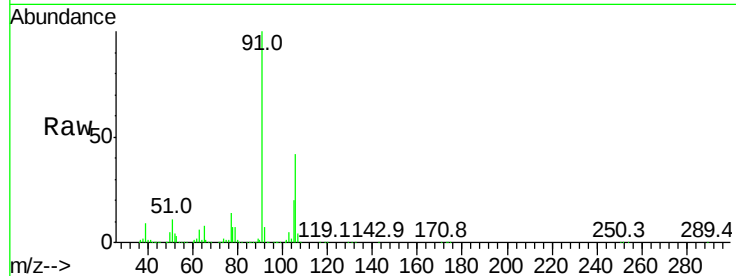




#59
m/p-Xylene
Concen: 9.295 ppbv
RT: 13.15 min Scan# 3177
Delta R.T. 0.01 min
Lab File: VL033262.D
Acq: 8 Mar 2019 16:36

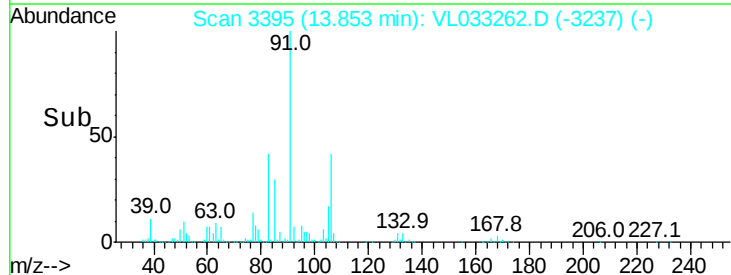
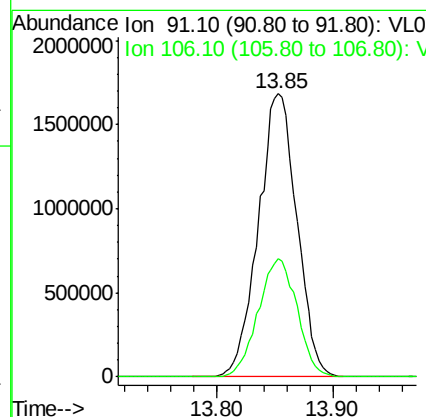
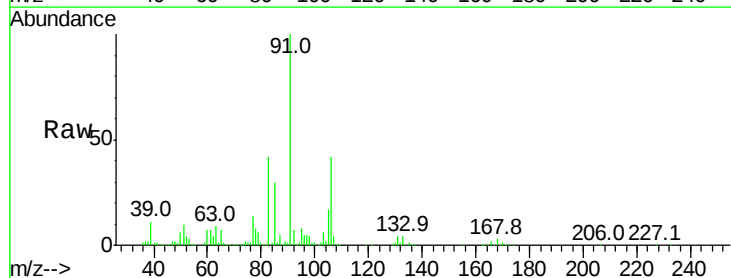
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

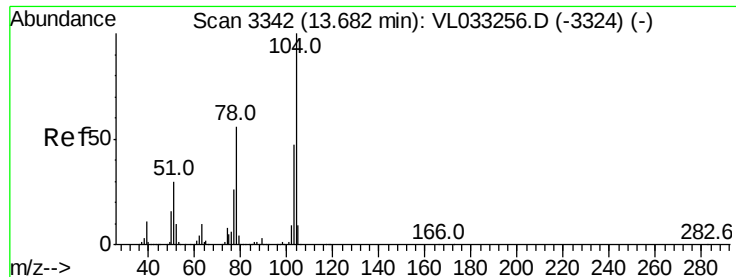
Tgt Ion: 91 Resp: 2786186
Ion Ratio Lower Upper
91 100
106 126.5 35.0 52.4#



#60
o-Xylene
Concen: 13.571 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. 0.01 min
Lab File: VL033262.D
Acq: 8 Mar 2019 16:36

Tgt Ion: 91 Resp: 3878802
Ion Ratio Lower Upper
91 100
106 42.1 21.1 63.4





#61

Styrene

Concen: 14.658 ppbv

RT: 13.69 min Scan# 3344

Delta R.T. 0.01 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

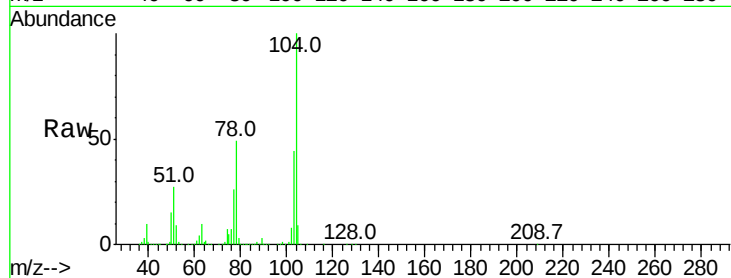
Tgt Ion:104 Resp: 2946325

Ion Ratio Lower Upper

104 100

78 53.1 43.9 65.9

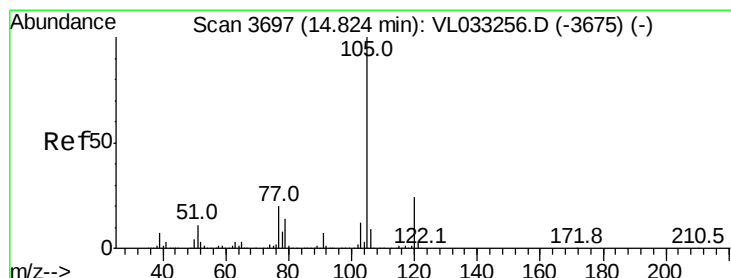
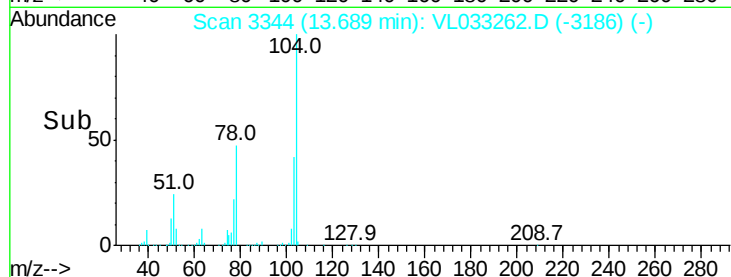
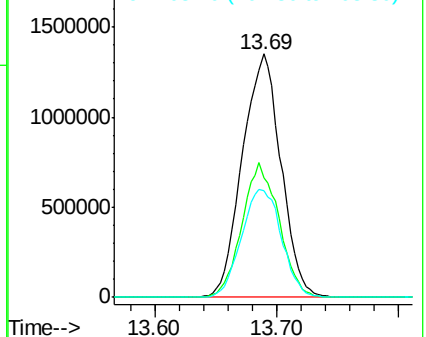
103 46.1 38.3 57.5



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: 13.228 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. 0.00 min

Lab File: VL033262.D

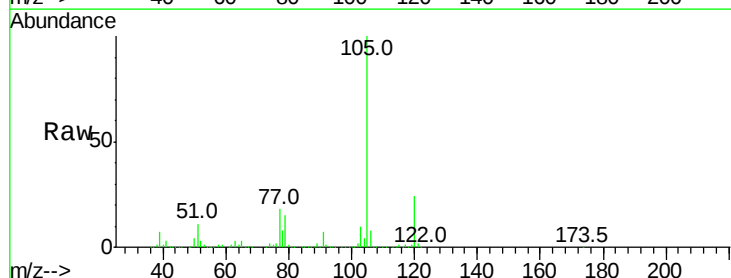
Acq: 8 Mar 2019 16:36

Tgt Ion:105 Resp: 5270985

Ion Ratio Lower Upper

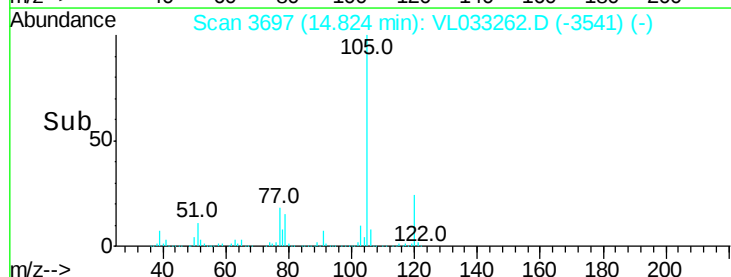
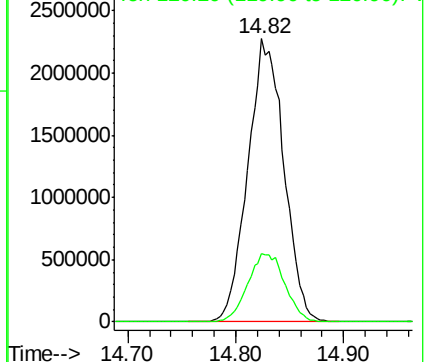
105 100

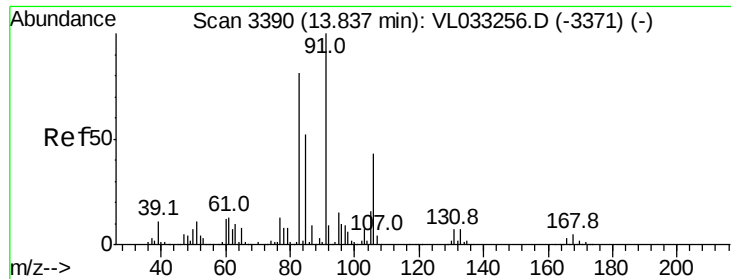
120 24.9 19.7 29.5



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: 12.125 ppbv

RT: 13.84 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Instrument :

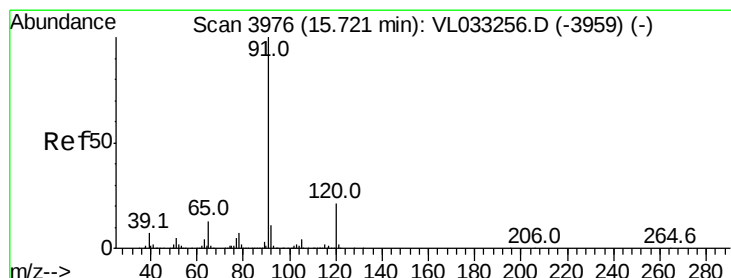
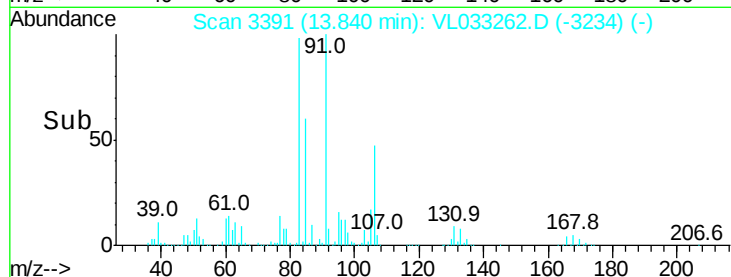
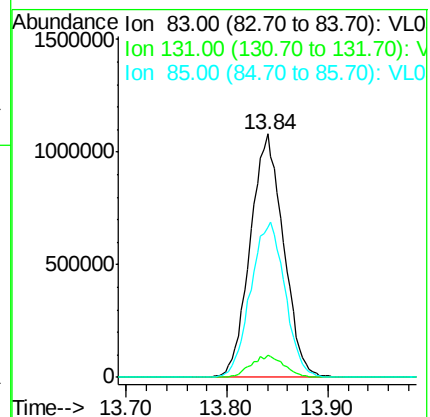
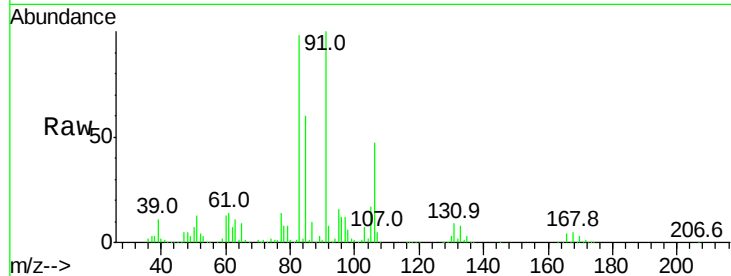
MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 83 Resp: 2466083

Ion	Ratio	Lower	Upper
83	100		
131	8.9	4.7	14.0
85	66.0	32.4	97.0



#64

n-propylbenzene

Concen: 14.167 ppbv

RT: 15.72 min Scan# 3977

Delta R.T. 0.00 min

Lab File: VL033262.D

Acq: 8 Mar 2019 16:36

Tgt Ion: 120 Resp: 1399378

Ion	Ratio	Lower	Upper
120	100		
91	484.8	392.8	589.2

