

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031319\
 Data File : VL033315.D
 Acq On : 14 Mar 2019 14:16
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Quant Time: Mar 15 02:06:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031319AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 14 00:01:31 2019
 QLast Update : Thu Mar 14 00:01:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	773490	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1762646	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2605554	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1624900	8.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	81.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	1527876	10.676	ppbv	100
3) Chlorodifluoromethane	3.01	51	912002	9.039	ppbv	99
4) Chloromethane	3.17	50	479646	8.781	ppbv	95
5) Vinyl Chloride	3.29	62	472461	8.641	ppbv	98
6) Bromomethane	3.52	94	293281	8.909	ppbv	100
7) Chloroethane	3.60	64	180442	9.217	ppbv	100
8) Dichlorotetrafluoroethane	3.22	85	1168239	8.938	ppbv	99
9) Propene	3.04	41	400018	8.785	ppbv	99
10) Heptane	8.25	43	1080247	9.704	ppbv	99
11) Trichlorofluoromethane	4.00	101	1361734	9.469	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	908661	9.372	ppbv	99
13) Ethanol	3.65	45	101687	7.296	ppbv	100
14) Bromoethene	3.79	108	385102	9.556	ppbv	100
15) Acetone	3.90	43	864359	8.127	ppbv	99
16) 1,3-Butadiene	3.36	39	367304	8.434	ppbv	84
17) tert-Butyl alcohol	4.36	59	173922	9.376	ppbv	99
18) 1,1-Dichloroethene	4.35	96	420836	9.828	ppbv	98
19) Isopropyl Alcohol	4.02	45	590516	9.076	ppbv	99
20) Methylene Chloride	4.41	84	354541	8.234	ppbv	99
21) Allyl Chloride	4.48	41	635654	9.900	ppbv	98
22) trans-1,2-Dichloroethene	4.97	96	419935	9.721	ppbv	94
23) Vinyl Acetate	5.16	43	1490095	9.650	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1025846	9.184	ppbv	100
25) Ethyl Acetate	5.77	43	1816578	9.377	ppbv	100
26) Hexane	5.78	57	811255	8.962	ppbv	99
27) Carbon Disulfide	4.62	76	1011911	10.453	ppbv	98
28) Methyl tert-Butyl Ether	5.11	73	1215407	9.340	ppbv	99
29) Chloroform	5.85	83	1362207	9.680	ppbv	97
30) Cyclohexane	7.25	84	675972	9.619	ppbv	98
31) cis-1,2-Dichloroethene	5.64	61	848880	9.739	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1334252	9.770	ppbv	99
34) 2-Butanone	5.33	43	1137695	9.335	ppbv	99
35) Carbon Tetrachloride	7.14	117	1414243	10.437	ppbv	98
36) Benzene	7.01	78	1700607	9.824	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1044374	10.099	ppbv	100
38) Trichloroethene	7.96	130	646977	9.452	ppbv	97
39) 1,2-Dichloropropane	7.74	63	643786	9.684	ppbv	97
40) 1,4-Dioxane	7.95	88	239671	9.977	ppbv	81
41) Tetrahydrofuran	6.15	42	698723	10.335	ppbv	99
42) Bromodichloromethane	7.92	83	1496119	10.321	ppbv	99
43) Methyl Methacrylate	8.14	69	702184	10.189	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2868908	9.693	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	931154	11.521	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1059995	10.885	ppbv	99
47) 1,1,2-Trichloroethane	9.62	97	695690	9.777	ppbv	98
48) Dibromochloromethane	10.45	129	1265539	10.811	ppbv	99
49) Bromoform	13.21	173	1250374	12.329	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	1758853	9.961	ppbv	99
51) 2-Hexanone	10.27	43	1390126	10.311	ppbv #	99
52) Tetrachloroethene	11.38	164	627878	8.830	ppbv	98
53) Toluene	9.95	91	2010889	10.145	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1125659	9.910	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	985398	8.429	ppbv	98
57) Chlorobenzene	12.31	112	1647485	7.832	ppbv	98
58) Ethyl Benzene	12.87	91	3115333	8.329	ppbv	100
59) m/p-Xylene	13.15	91	2638911	8.391	ppbv #	100
60) o-Xylene	13.85	91	2558466	8.434	ppbv	99
61) Styrene	13.69	104	1897104	8.912	ppbv	99
62) Isopropylbenzene	14.83	105	3578682	8.385	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1763067	8.064	ppbv	99
64) n-propylbenzene	15.73	120	903611	8.538	ppbv	98
65) tert-Butylbenzene	16.91	119	3195030	8.858	ppbv	100
66) Benzyl Chloride	17.16	91	1602282	11.165	ppbv	100
67) sec-Butylbenzene	17.46	105	4542859	8.760	ppbv	100
69) p-Isopropyltoluene	17.82	119	3747817	9.045	ppbv	100
70) n-Butylbenzene	18.72	91	3904801	9.013	ppbv	100
71) 2-Chlorotoluene	15.62	91	2756356	8.623	ppbv	100
72) 4-Ethyltoluene	16.00	105	2980416	9.171	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	2861103	9.364	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	2904269	9.314	ppbv	99
75) 1,3-Dichlorobenzene	17.17	146	1655795	8.484	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1650706	8.661	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1622287	8.537	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	935753	6.677	ppbv	99
79) Naphthalene	22.42	128	2942608	11.487	ppbv	98
80) Naphthalene,2-methyl-	25.11	142	1159950	16.167	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1462424	10.039	ppbv	99

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

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ClientSampleId :
VSTDCCC010EC

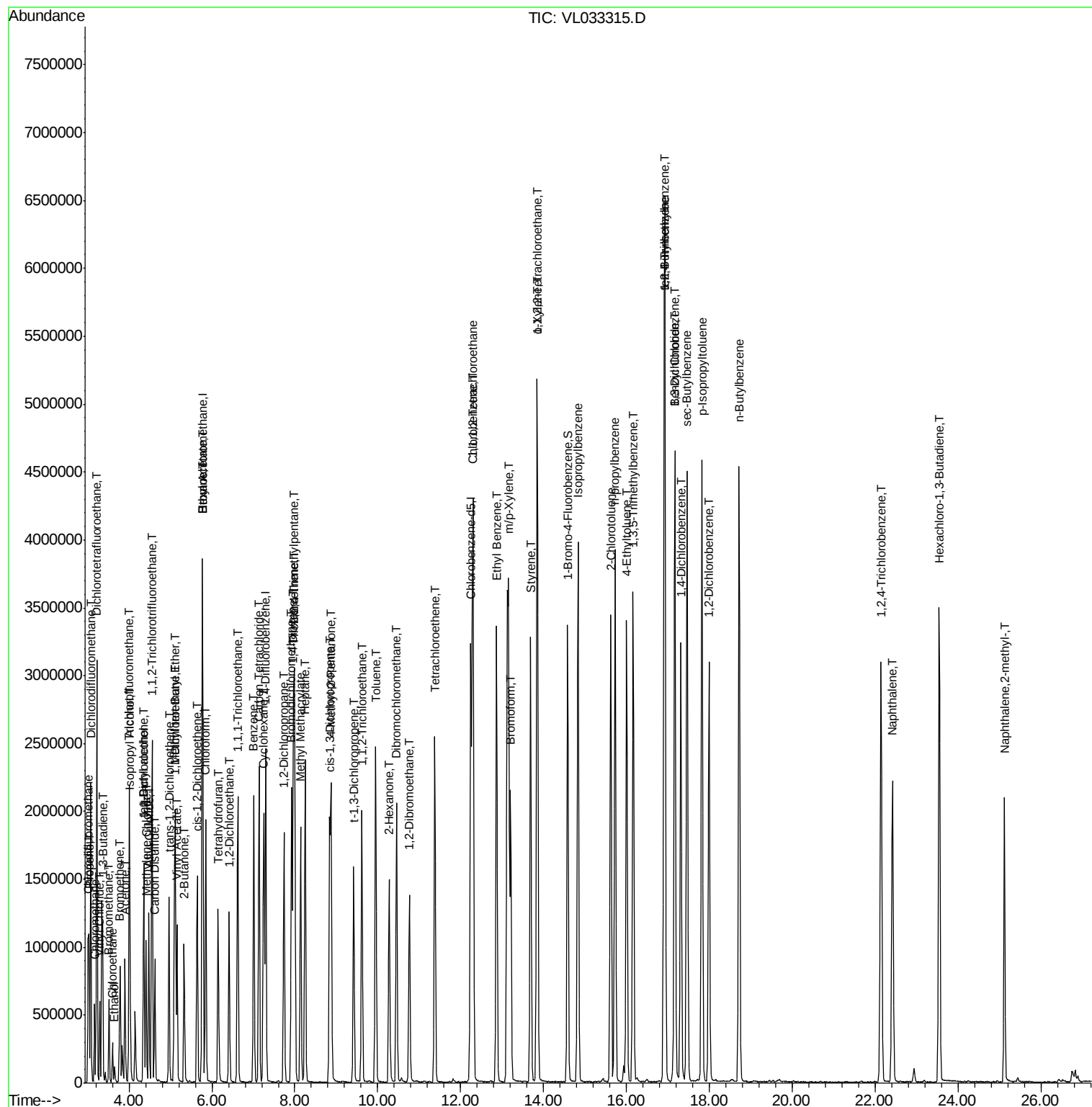
Quant Time: Mar 15 02:06:19 2019

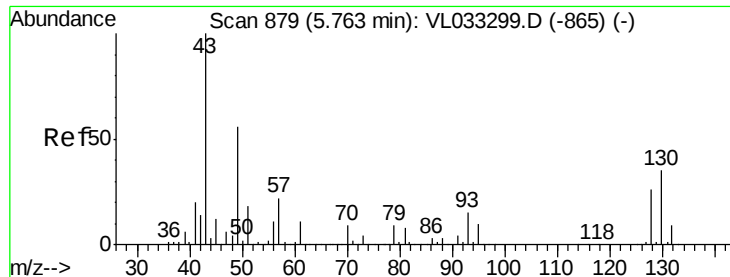
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031319AIR.M

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QLast Update : Thu Mar 14 00:01:31 2019

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

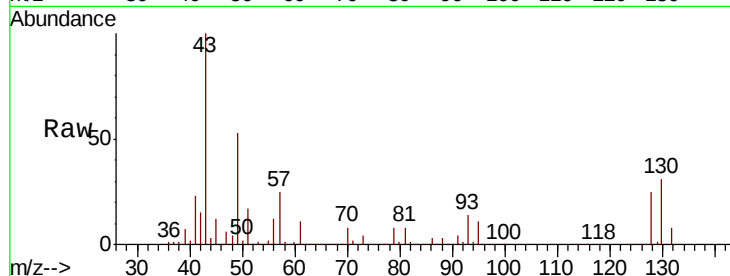
Tgt Ion: 49 Resp: 773490

Ion Ratio Lower Upper

49 100

128 46.3 23.4 70.3

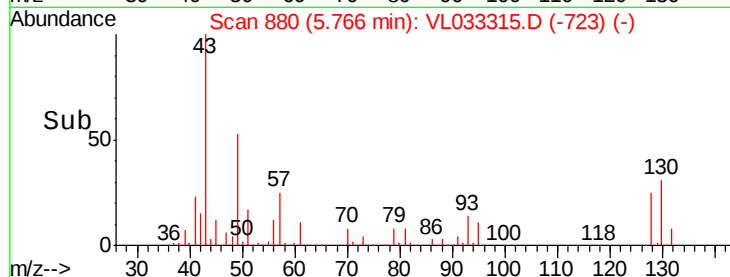
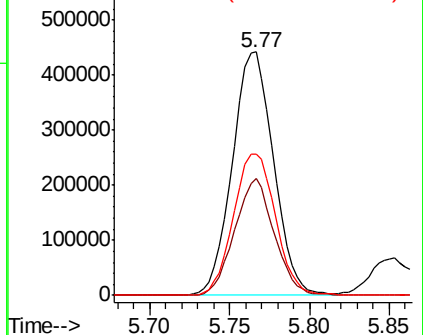
130 59.7 29.9 89.7



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: 10.676 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033315.D

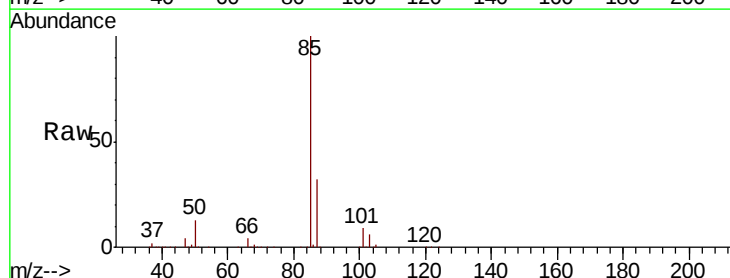
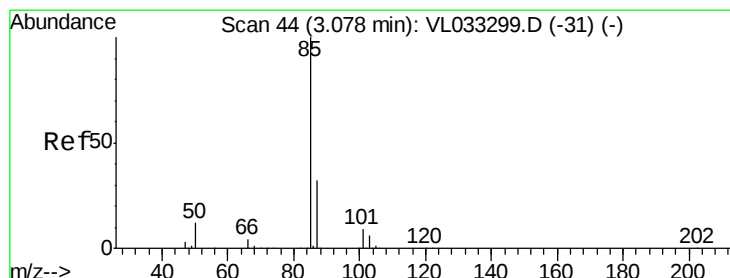
Acq: 14 Mar 2019 14:16

Tgt Ion: 85 Resp: 1527876

Ion Ratio Lower Upper

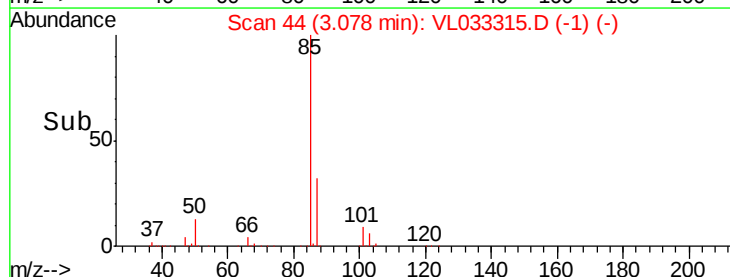
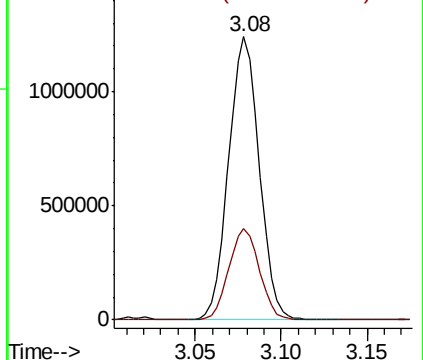
85 100

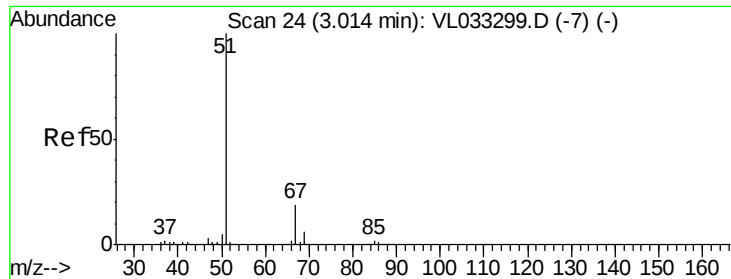
87 32.4 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

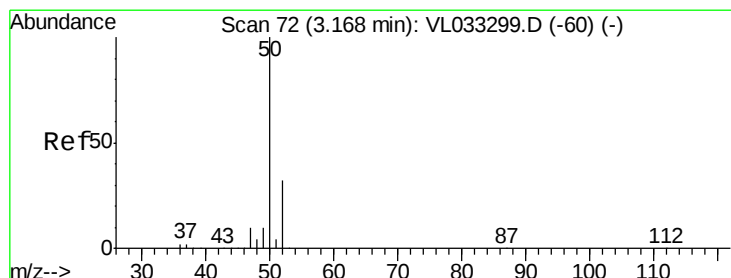
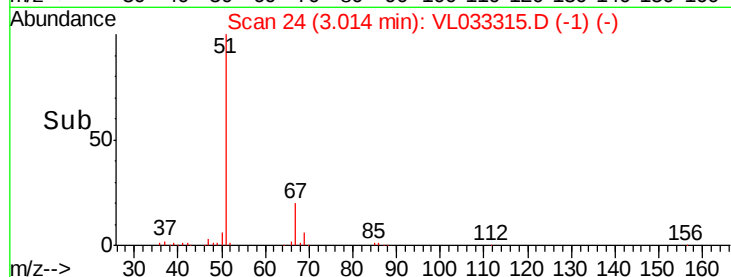
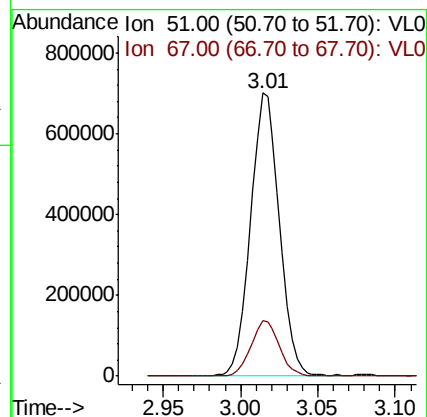
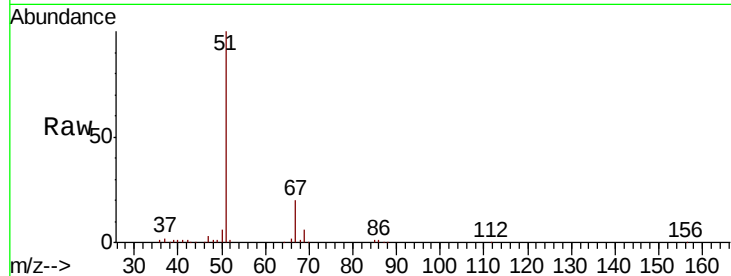




#3
Chlorodifluoromethane
Concen: 9.039 ppbv
RT: 3.01 min Scan# 24
Delta R.T. 0.00 min
Lab File: VL033315.D
Acq: 14 Mar 2019 14:16

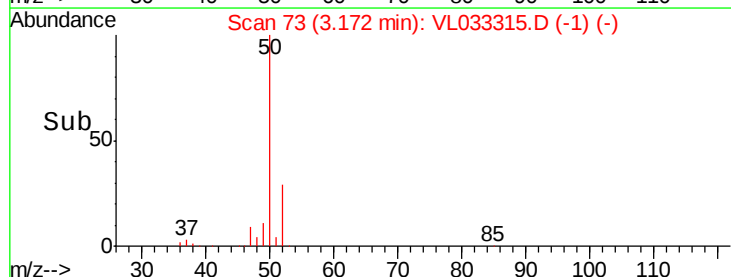
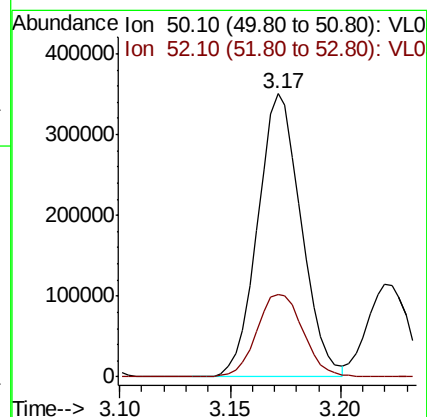
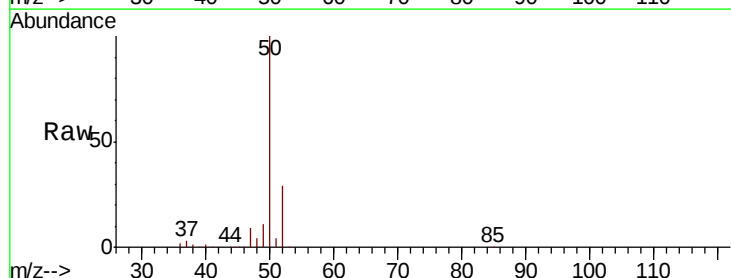
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

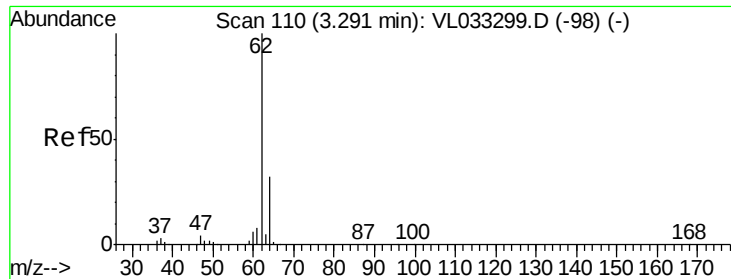
Tgt Ion: 51 Resp: 912002
Ion Ratio Lower Upper
51 100
67 19.2 14.9 22.3



#4
Chloromethane
Concen: 8.781 ppbv
RT: 3.17 min Scan# 73
Delta R.T. 0.00 min
Lab File: VL033315.D
Acq: 14 Mar 2019 14:16

Tgt Ion: 50 Resp: 479646
Ion Ratio Lower Upper
50 100
52 29.4 25.7 38.5





#5

Vinyl Chloride

Concen: 8.641 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

Instrument :

MSVOA_L

ClientSampleId :

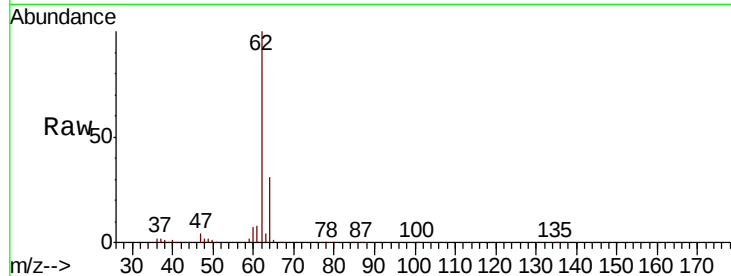
VSTDCCC010EC

Tgt Ion: 62 Resp: 472461

Ion Ratio Lower Upper

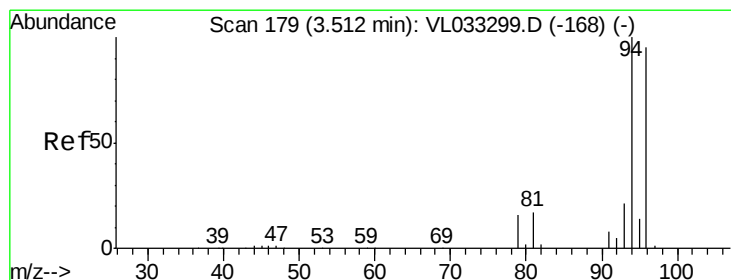
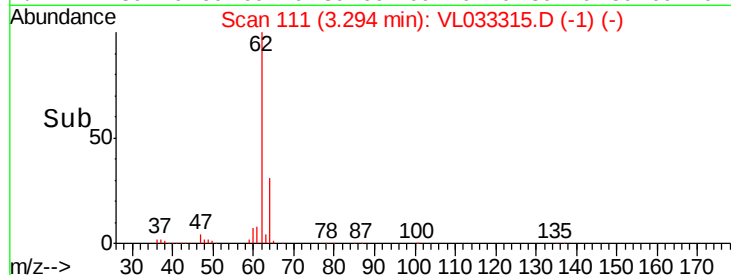
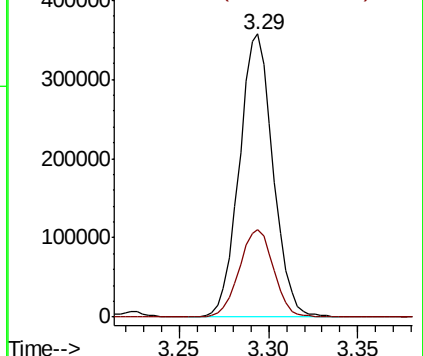
62 100

64 30.8 25.5 38.3



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 8.909 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033315.D

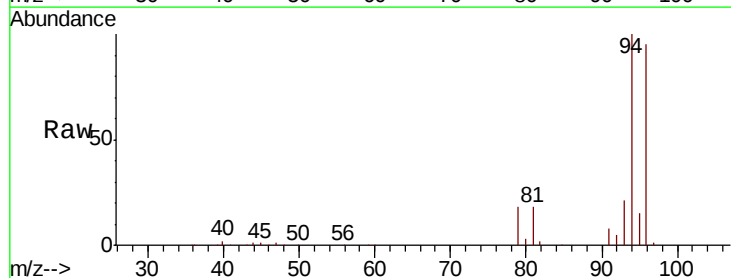
Acq: 14 Mar 2019 14:16

Tgt Ion: 94 Resp: 293281

Ion Ratio Lower Upper

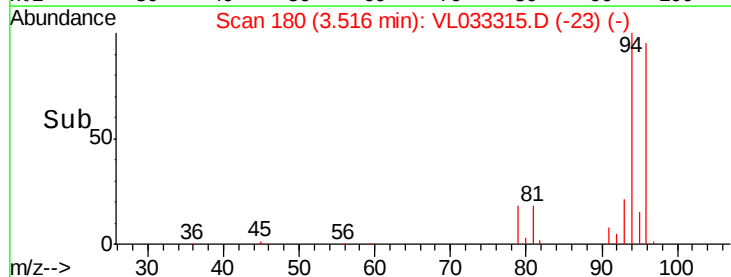
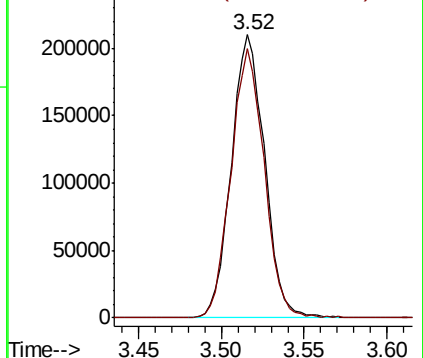
94 100

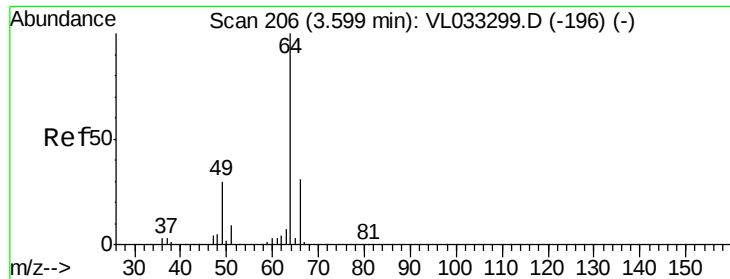
96 95.2 76.2 114.4



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.217 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

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ClientSampleId :

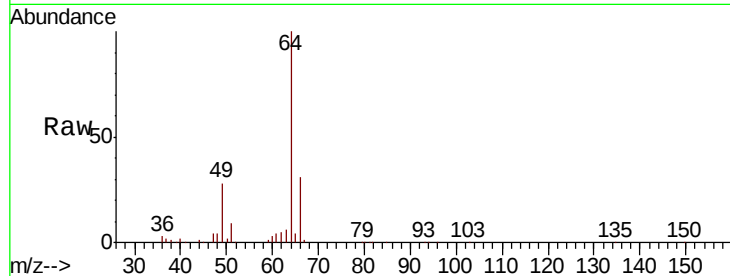
VSTDCCC010EC

Tgt Ion: 64 Resp: 180442

Ion Ratio Lower Upper

64 100

66 30.8 24.9 37.3



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.60

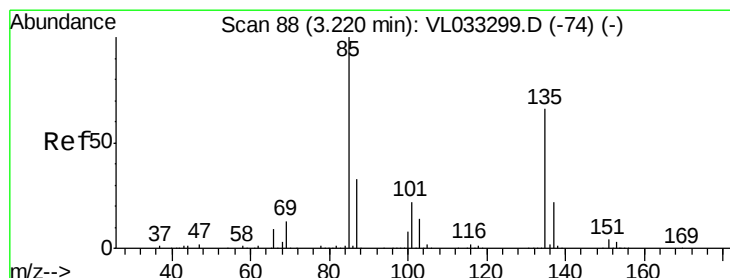
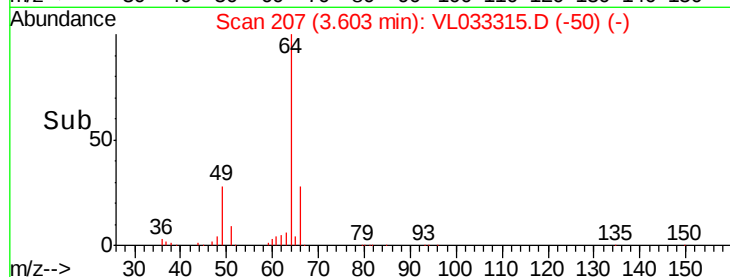
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.938 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL033315.D

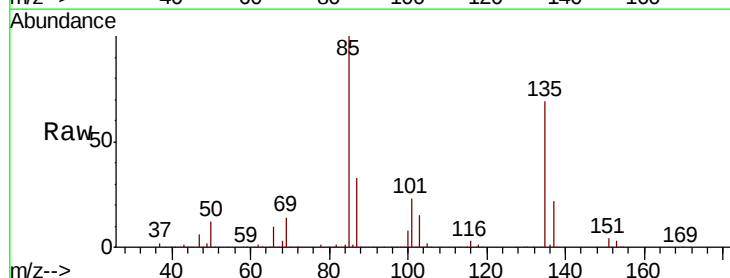
Acq: 14 Mar 2019 14:16

Tgt Ion: 85 Resp: 1168239

Ion Ratio Lower Upper

85 100

135 67.2 52.9 79.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.22

1000000

800000

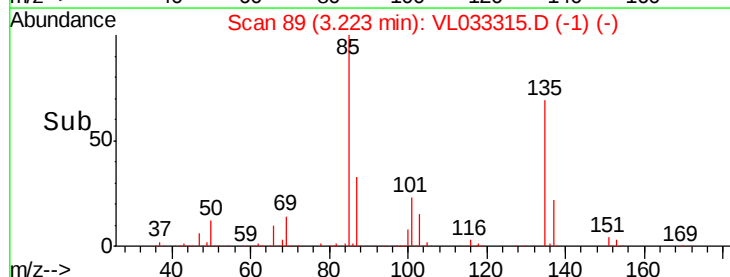
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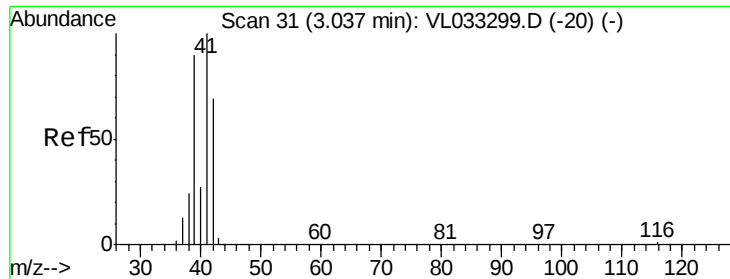
400000

200000

0

Time-->





#9

Propene

Concen: 8.785 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

Instrument :

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ClientSampleId :

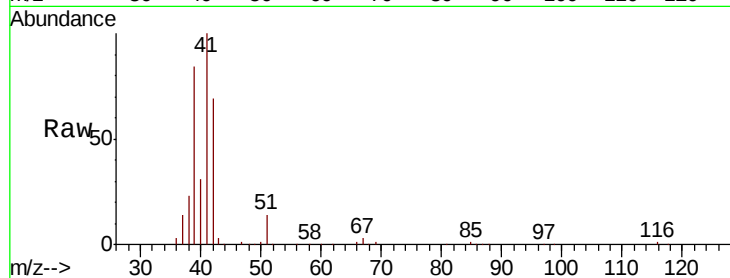
VSTDCCC010EC

Tgt Ion: 41 Resp: 400018

Ion Ratio Lower Upper

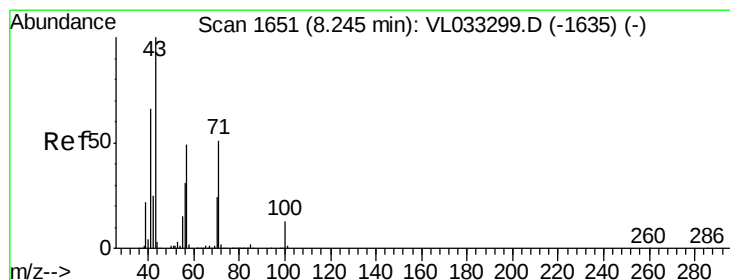
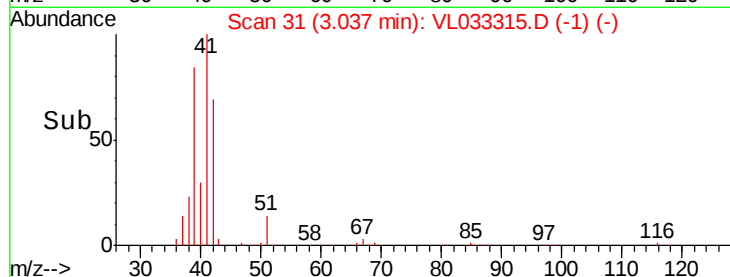
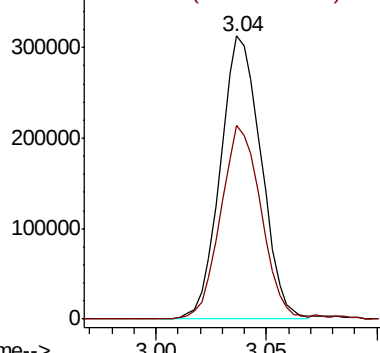
41 100

42 68.9 54.4 81.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.704 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. 0.00 min

Lab File: VL033315.D

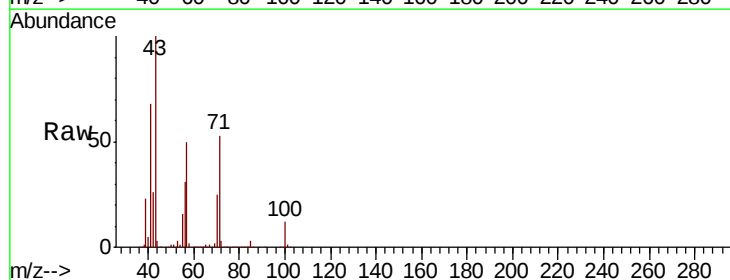
Acq: 14 Mar 2019 14:16

Tgt Ion: 43 Resp: 1080247

Ion Ratio Lower Upper

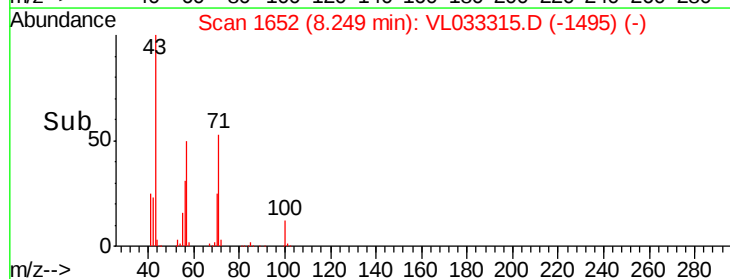
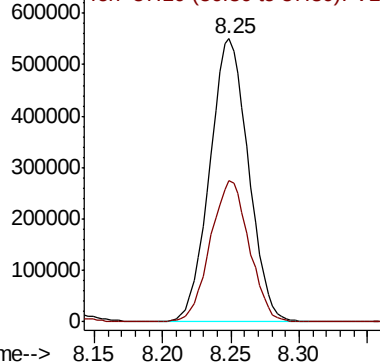
43 100

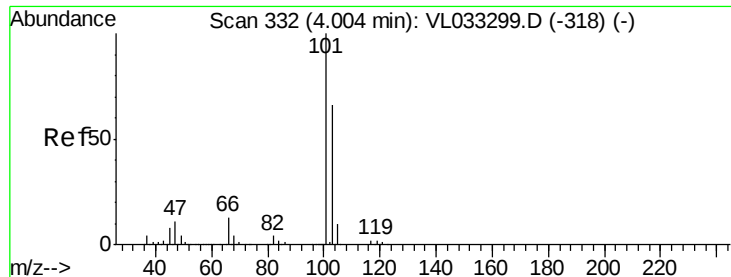
57 50.2 39.6 59.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

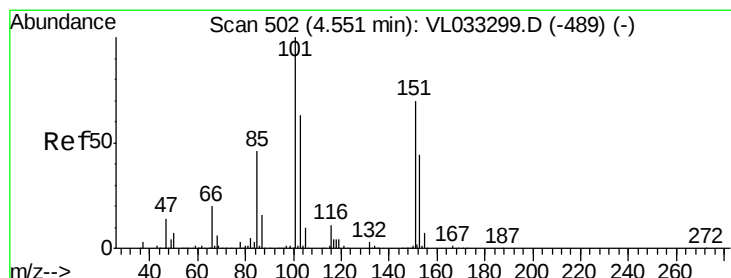
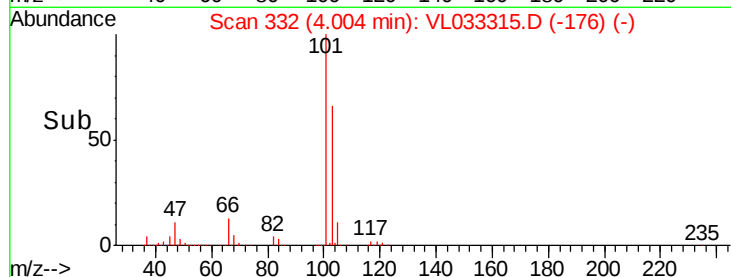
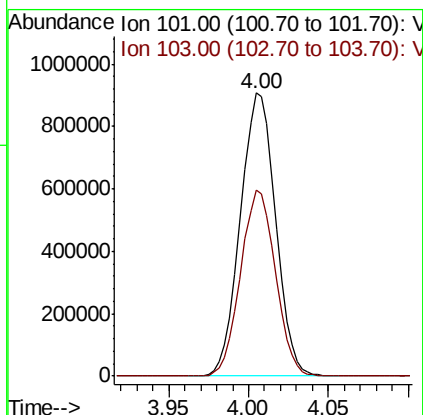
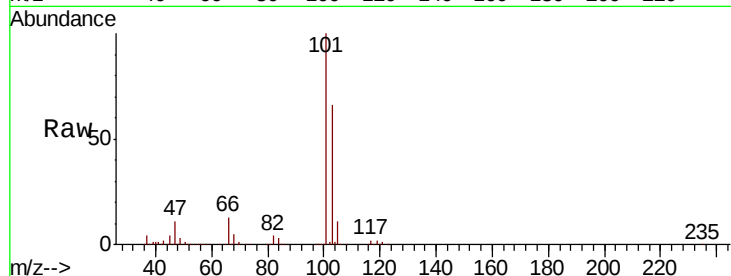




#11
 Trichlorofluoromethane
 Concen: 9.469 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL033315.D
 Acq: 14 Mar 2019 14:16

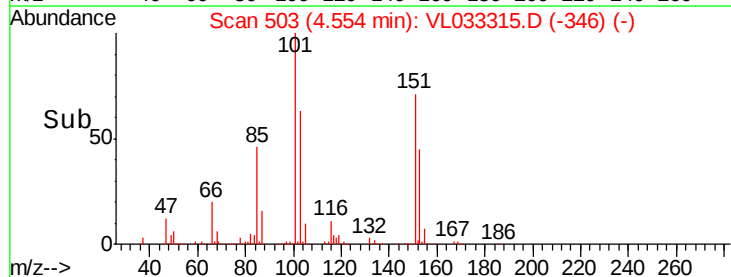
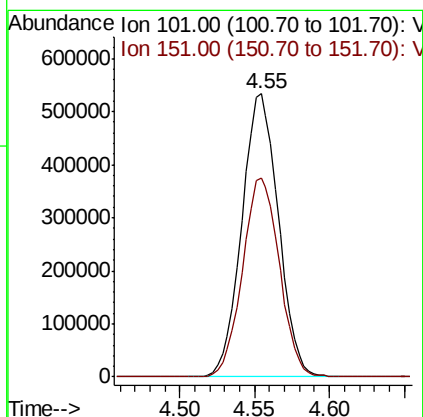
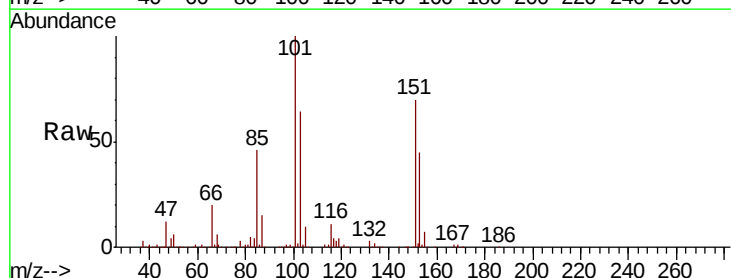
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

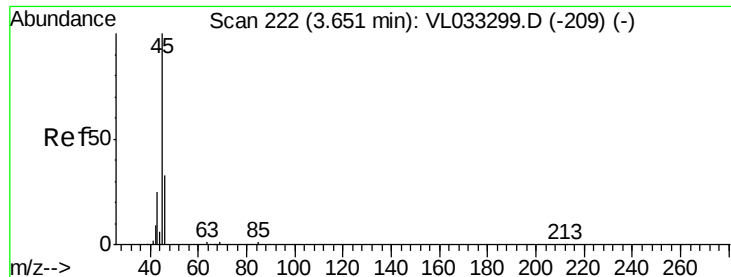
Tgt Ion:101 Resp: 1361734
 Ion Ratio Lower Upper
 101 100
 103 65.5 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.372 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VL033315.D
 Acq: 14 Mar 2019 14:16

Tgt Ion:101 Resp: 908661
 Ion Ratio Lower Upper
 101 100
 151 70.8 57.2 85.8





#13

Ethanol

Concen: 7.296 ppbv

RT: 3.65 min Scan# 221

Delta R.T. -0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

Instrument :

MSVOA_L

ClientSampleId :

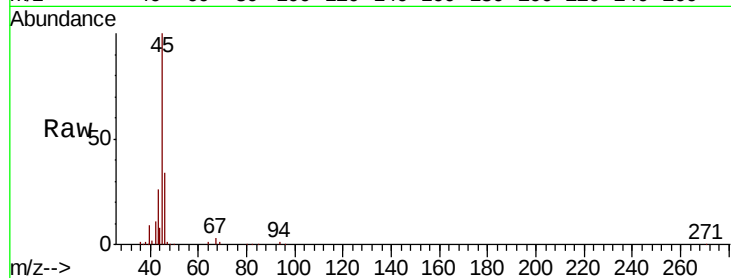
VSTDCCC010EC

Tgt Ion: 45 Resp: 101687

Ion Ratio Lower Upper

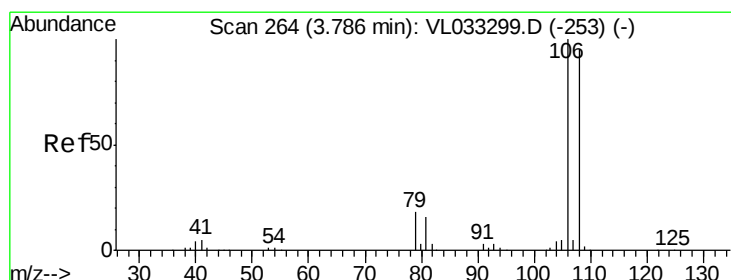
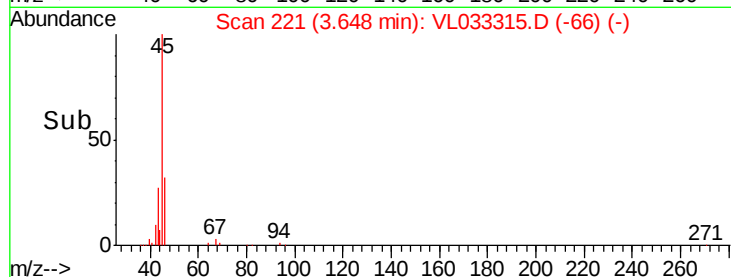
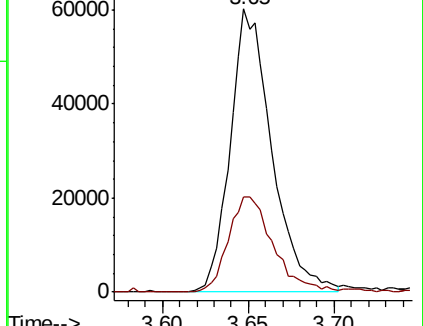
45 100

46 37.2 14.9 59.5



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 9.556 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

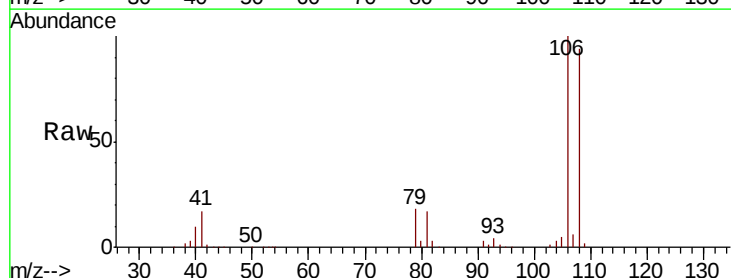
Tgt Ion: 108 Resp: 385102

Ion Ratio Lower Upper

108 100

106 106.6 85.1 127.7

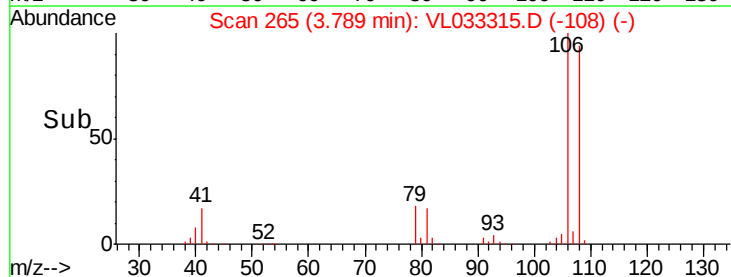
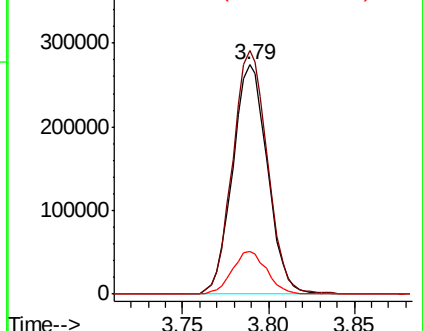
79 18.8 15.0 22.6

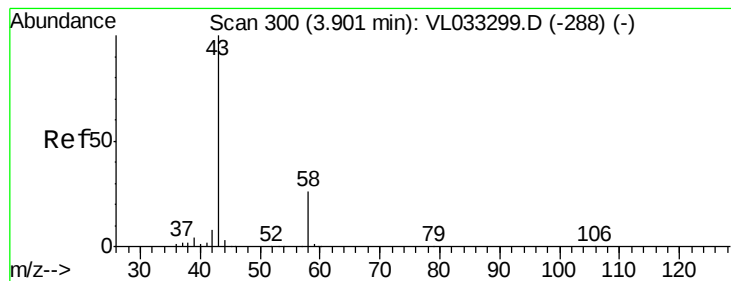


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 8.127 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

Instrument :

MSVOA_L

ClientSampleId :

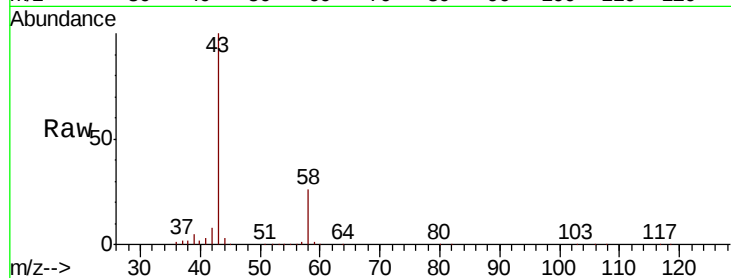
VSTDCCC010EC

Tgt Ion: 43 Resp: 864359

Ion Ratio Lower Upper

43 100

58 26.1 20.6 31.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.90

600000

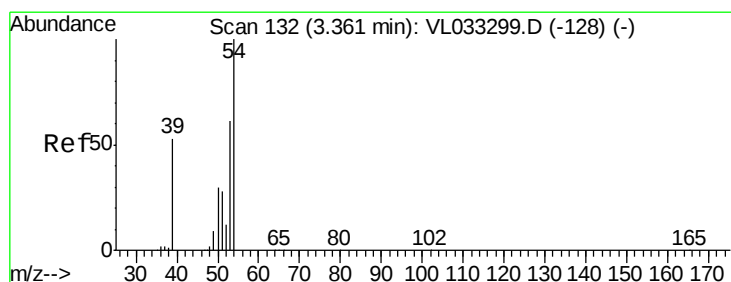
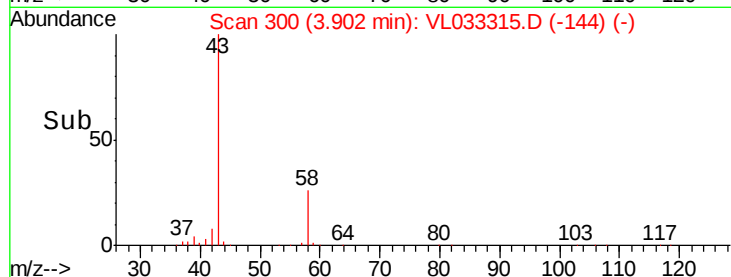
400000

200000

0

Time-->

3.85 3.90 3.95



#16

1,3-Butadiene

Concen: 8.434 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033315.D

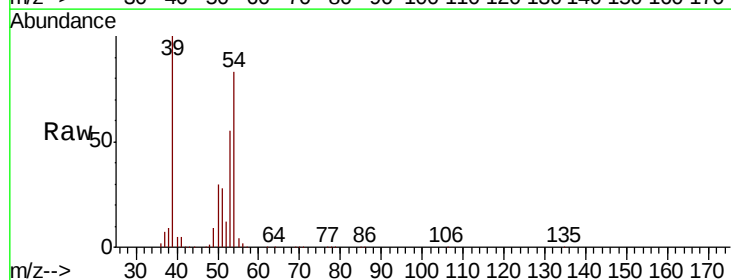
Acq: 14 Mar 2019 14:16

Tgt Ion: 39 Resp: 367304

Ion Ratio Lower Upper

39 100

54 100.0 68.4 102.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.36

400000

300000

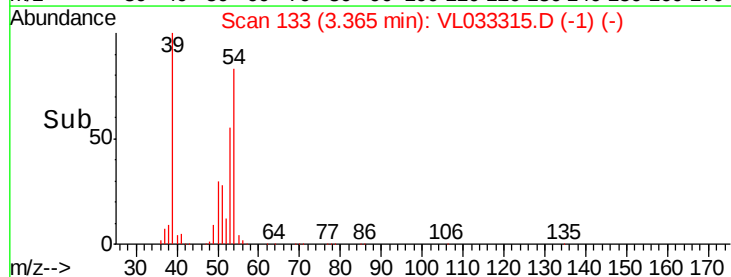
200000

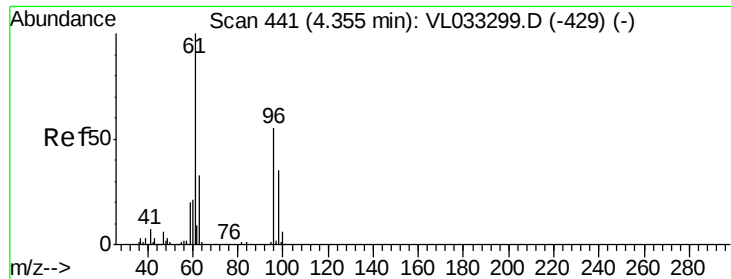
100000

0

Time-->

3.34 3.36 3.38 3.40

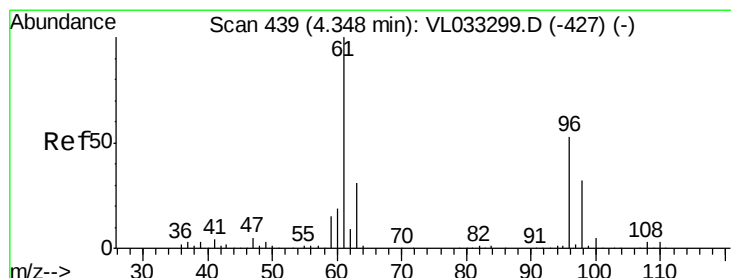
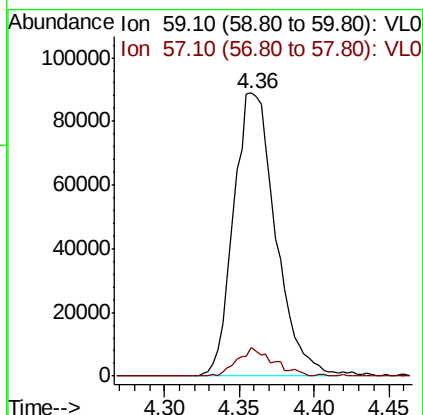
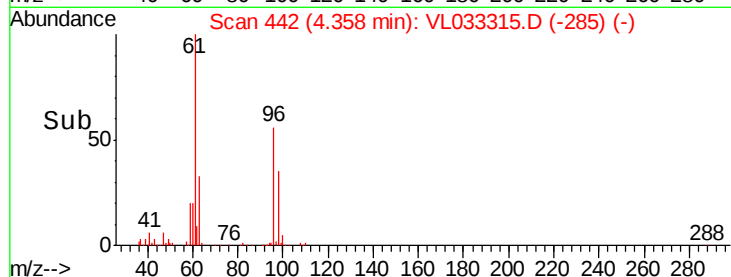
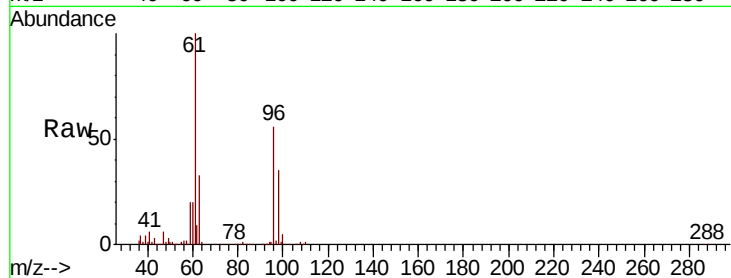




#17
tert-Butyl alcohol
Concen: 9.376 ppbv
RT: 4.36 min Scan# 442
Delta R.T. 0.00 min
Lab File: VL033315.D
Acq: 14 Mar 2019 14:16

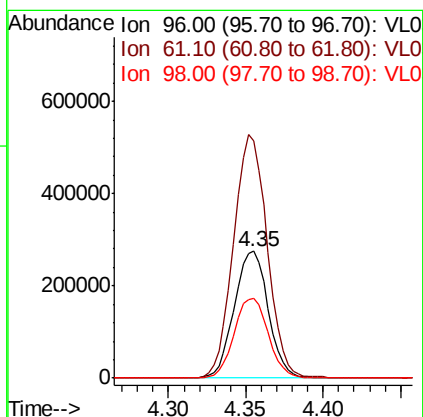
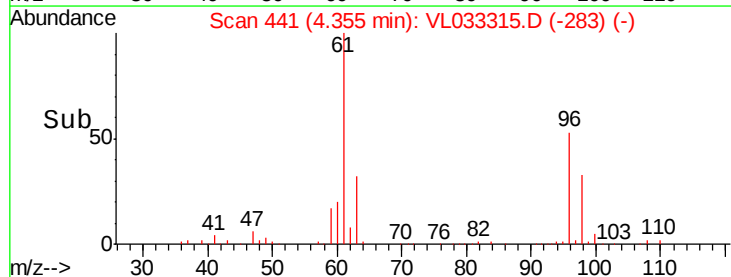
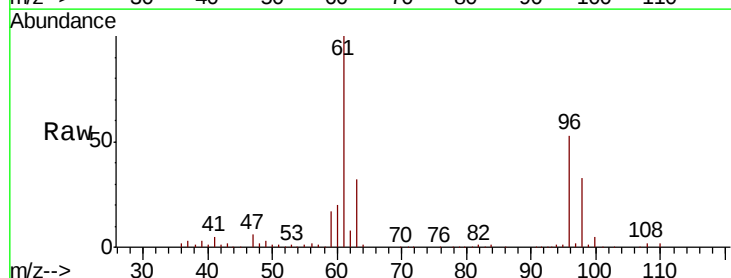
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

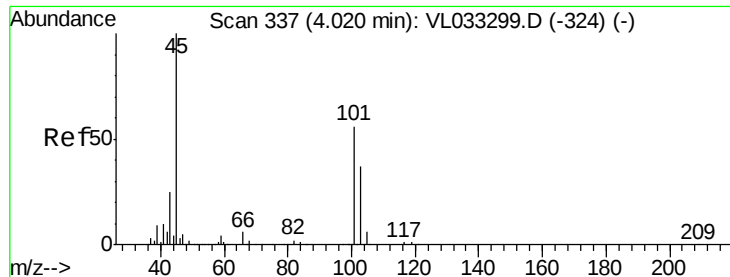
Tgt Ion: 59 Resp: 173922
Ion Ratio Lower Upper
59 100
57 8.8 7.4 11.2



#18
1,1-Dichloroethene
Concen: 9.828 ppbv
RT: 4.35 min Scan# 441
Delta R.T. 0.01 min
Lab File: VL033315.D
Acq: 14 Mar 2019 14:16

Tgt Ion: 96 Resp: 420836
Ion Ratio Lower Upper
96 100
61 187.0 152.3 228.5
98 62.4 48.6 72.8





#19

Isopropyl Alcohol

Concen: 9.076 ppbv

RT: 4.02 min Scan# 338

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

Instrument :

MSVOA_L

ClientSampleId :

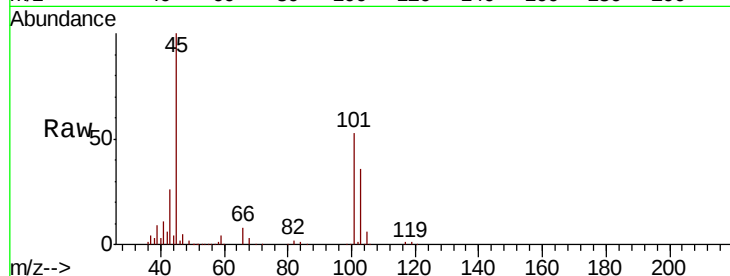
VSTDCCC010EC

Tgt Ion: 45 Resp: 590516

Ion Ratio Lower Upper

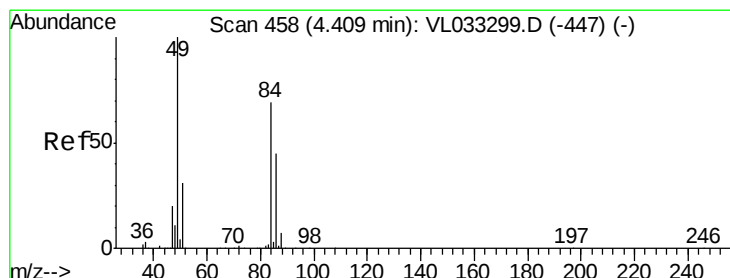
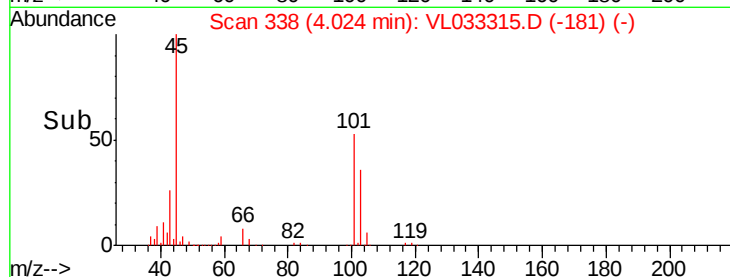
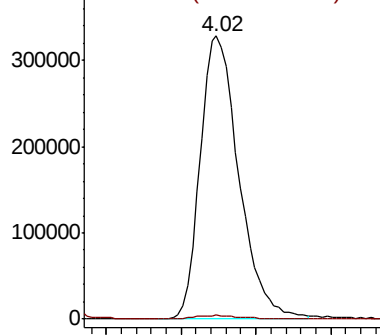
45 100

58 2.0 1.4 2.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 8.234 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

Tgt Ion: 84 Resp: 354541

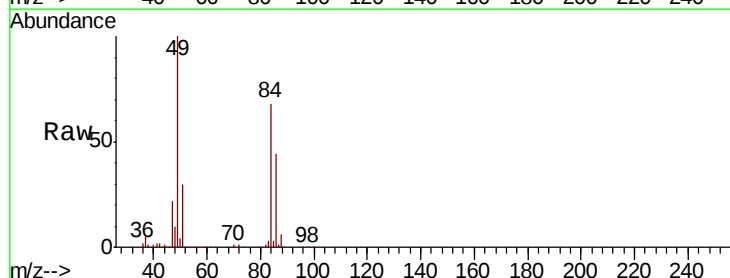
Ion Ratio Lower Upper

84 100

49 145.8 115.4 173.2

51 44.1 35.7 53.5

86 65.1 52.6 78.8

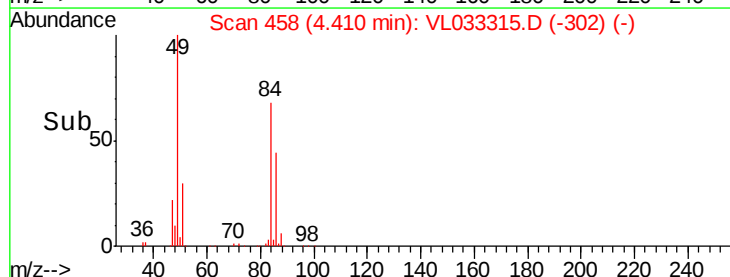
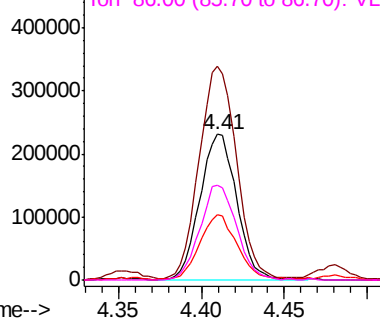


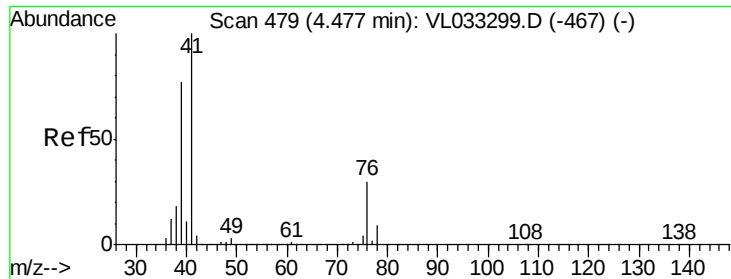
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

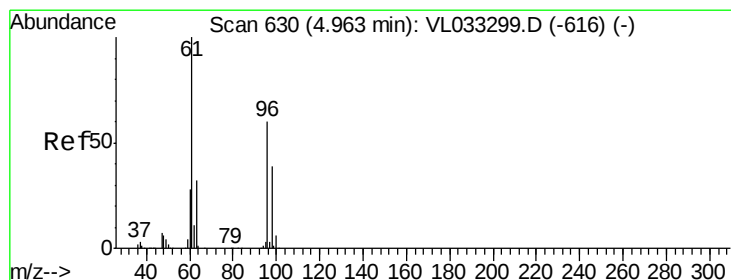
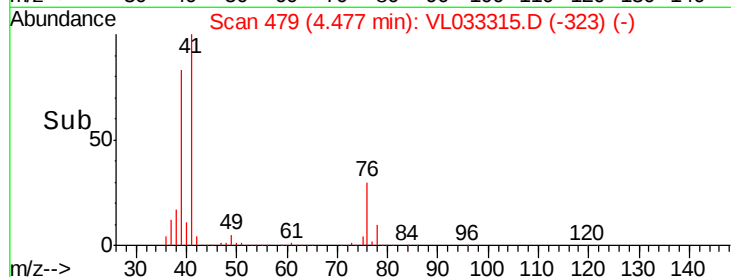
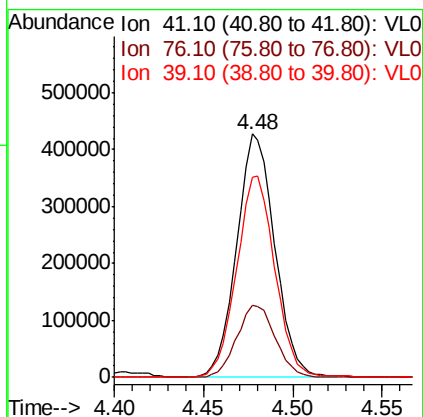
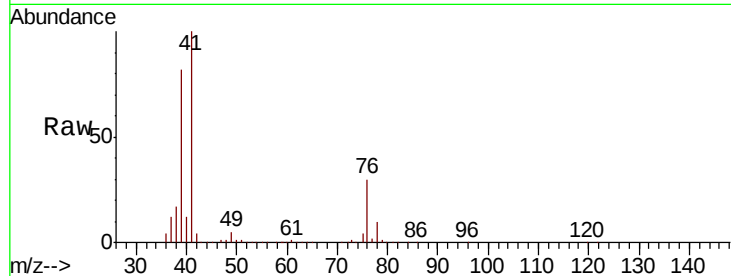




#21
 Allyl Chloride
 Concen: 9.900 ppbv
 RT: 4.48 min Scan# 479
 Delta R.T. 0.00 min
 Lab File: VL033315.D
 Acq: 14 Mar 2019 14:16

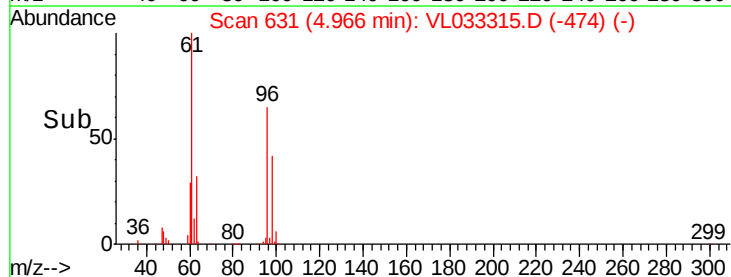
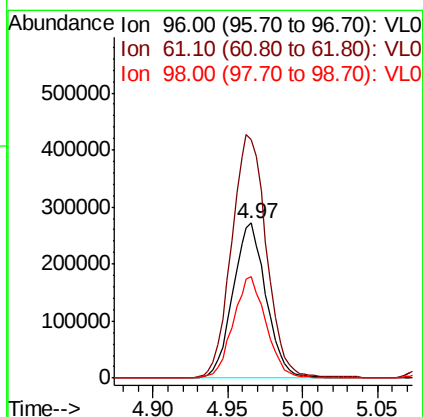
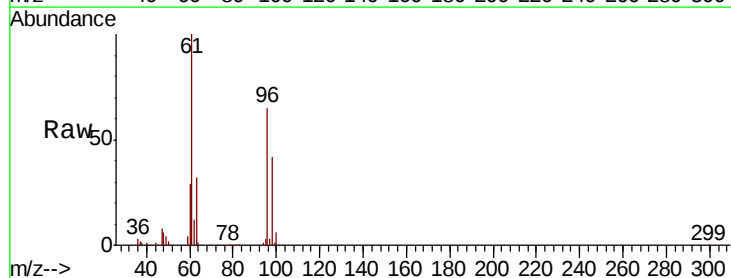
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

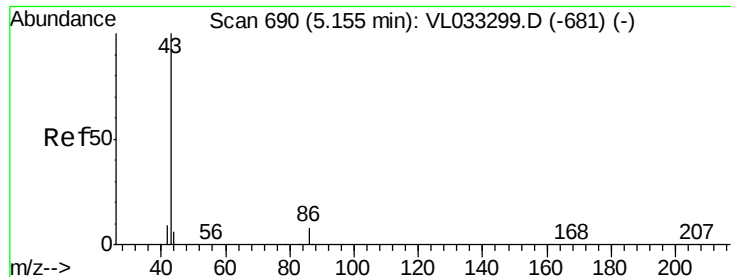
Tgt Ion: 41 Resp: 635654
 Ion Ratio Lower Upper
 41 100
 76 30.3 24.3 36.5
 39 83.2 64.4 96.6



#22
 trans-1,2-Dichloroethene
 Concen: 9.721 ppbv
 RT: 4.97 min Scan# 631
 Delta R.T. 0.00 min
 Lab File: VL033315.D
 Acq: 14 Mar 2019 14:16

Tgt Ion: 96 Resp: 419935
 Ion Ratio Lower Upper
 96 100
 61 154.6 132.7 199.1
 98 65.6 52.4 78.6





#23

Vinyl Acetate

Concen: 9.650 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 1490095

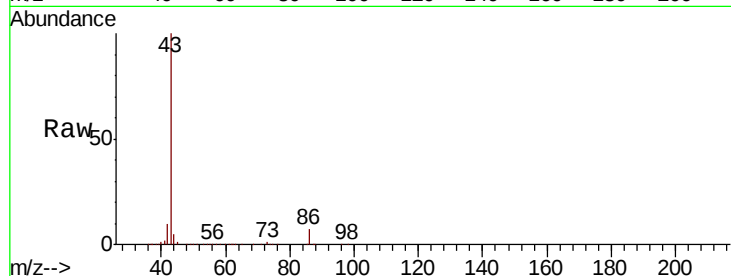
Ion Ratio Lower Upper

43 100

86 7.3 5.8 8.8

42 10.4 7.8 11.8

44 5.3 4.1 6.1

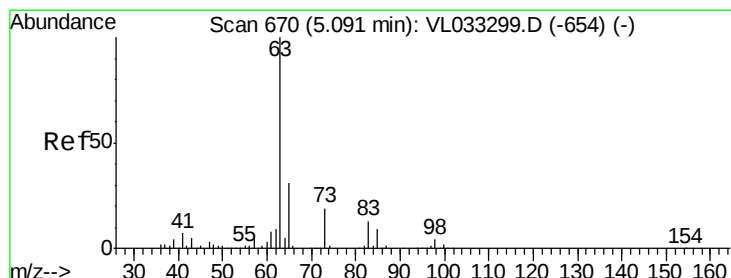
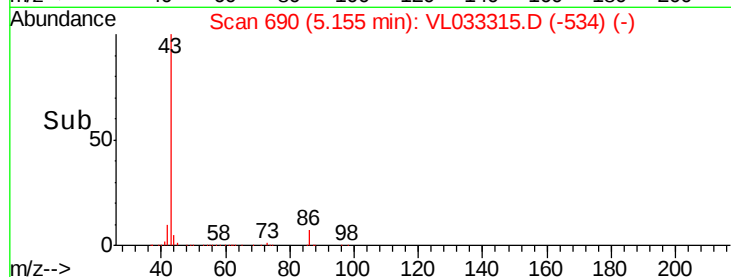
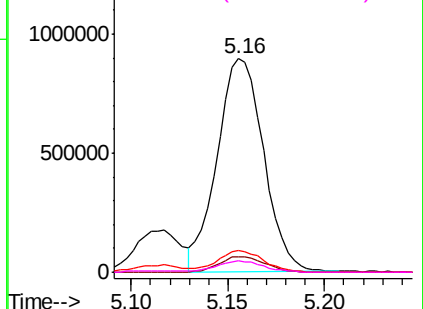


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.184 ppbv

RT: 5.09 min Scan# 671

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

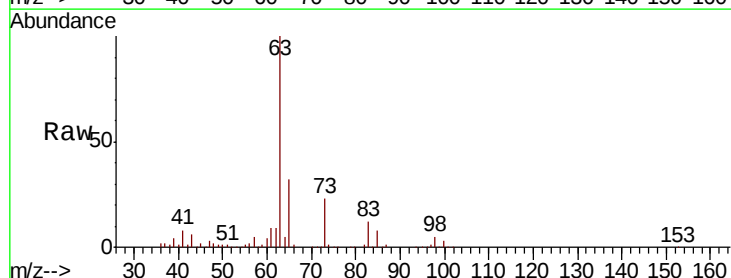
Tgt Ion: 63 Resp: 1025846

Ion Ratio Lower Upper

63 100

98 4.5 2.3 6.8

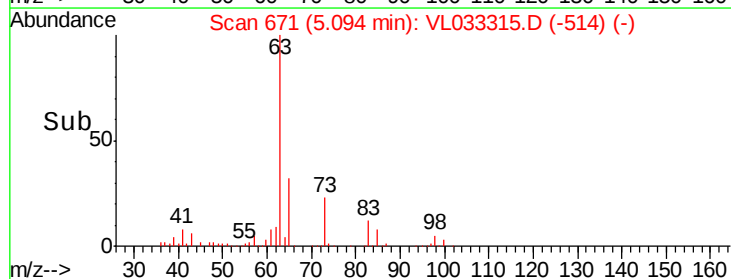
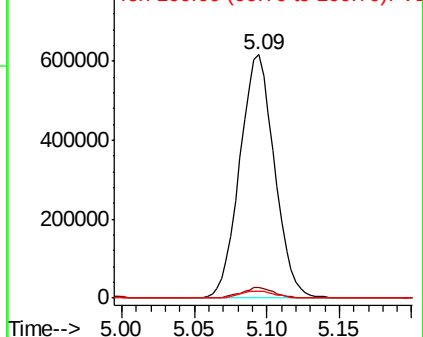
100 2.7 1.3 3.8

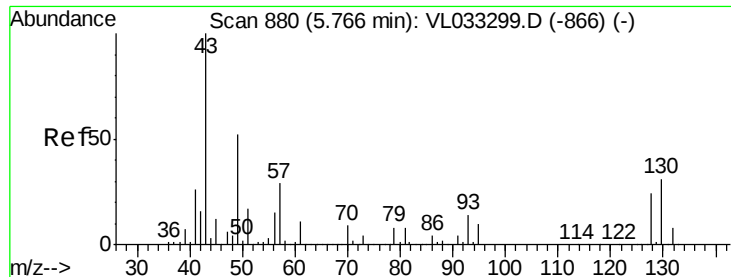


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

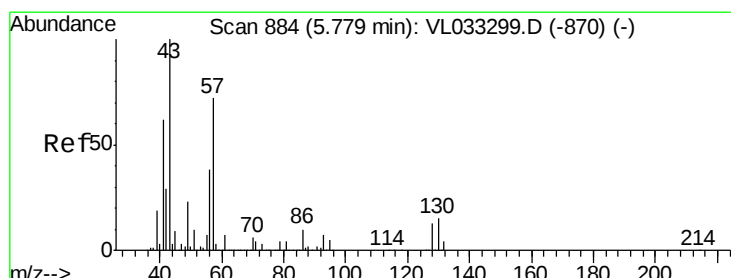
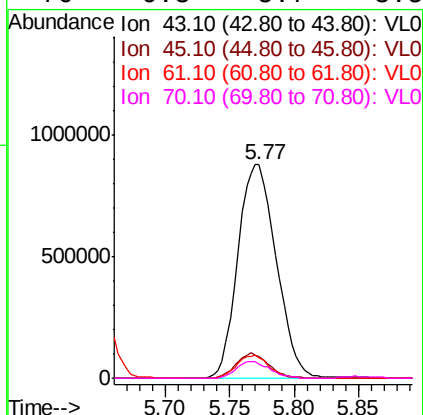
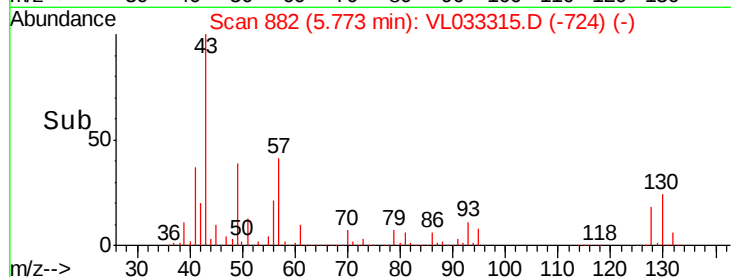
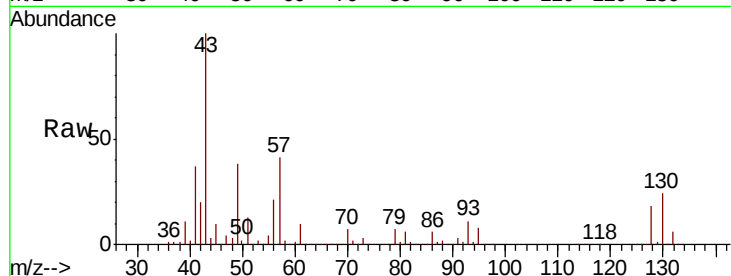




#25
Ethyl Acetate
Concen: 9.377 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.01 min
Lab File: VL033315.D
Acq: 14 Mar 2019 14:16

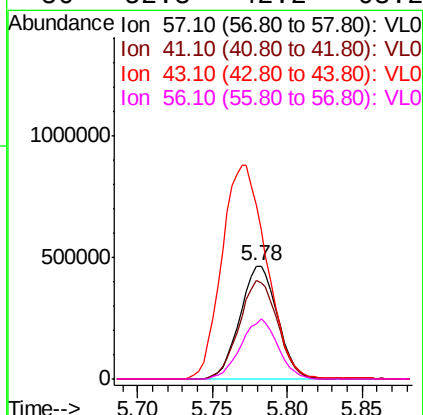
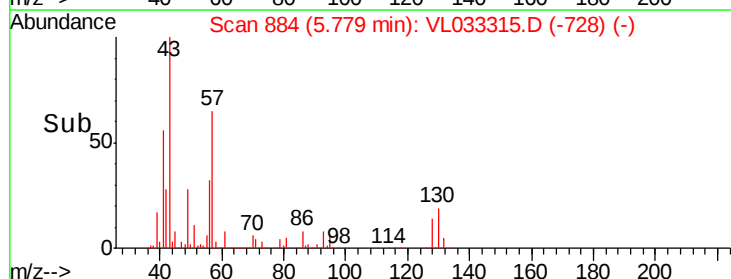
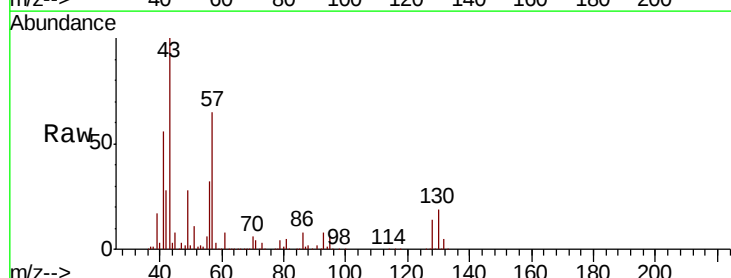
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

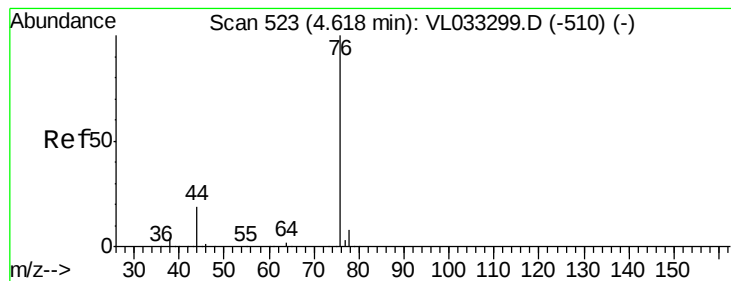
Tgt Ion: 43 Resp: 1816578
Ion Ratio Lower Upper
43 100
45 9.9 8.0 12.0
61 9.4 7.5 11.3
70 6.8 5.7 8.5



#26
Hexane
Concen: 8.962 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL033315.D
Acq: 14 Mar 2019 14:16

Tgt Ion: 57 Resp: 811255
Ion Ratio Lower Upper
57 100
41 89.0 71.6 107.4
43 225.3 179.2 268.8
56 52.3 42.2 63.2





#27

Carbon Disulfide

Concen: 10.453 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

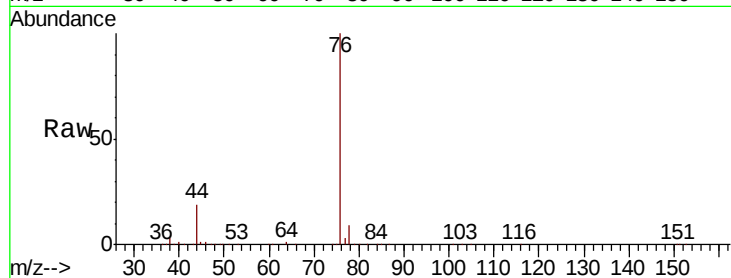
Tgt Ion: 76 Resp: 1011911

Ion Ratio Lower Upper

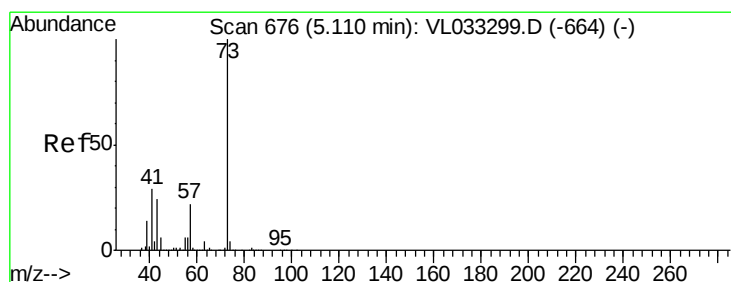
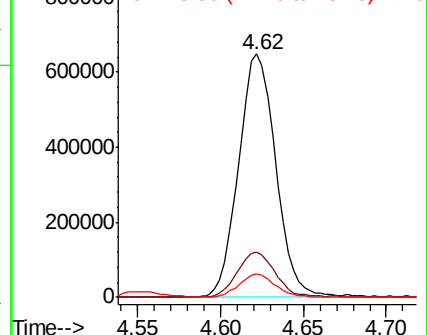
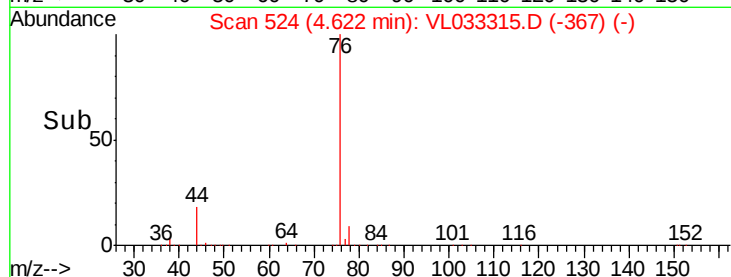
76 100

44 19.5 14.7 22.1

78 9.5 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.340 ppbv

RT: 5.11 min Scan# 676

Delta R.T. 0.00 min

Lab File: VL033315.D

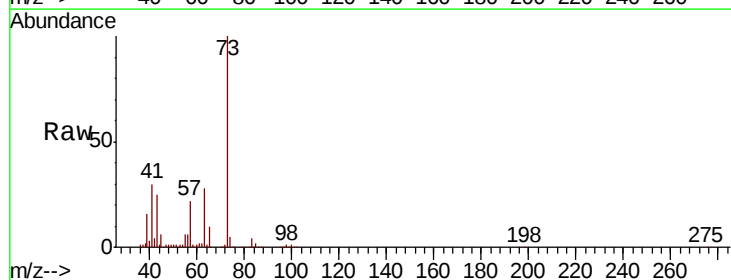
Acq: 14 Mar 2019 14:16

Tgt Ion: 73 Resp: 1215407

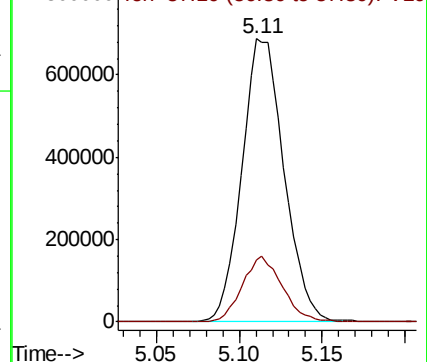
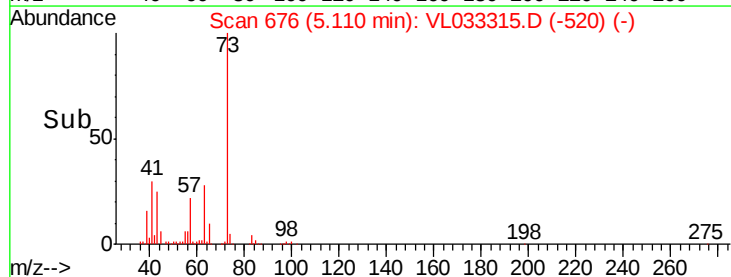
Ion Ratio Lower Upper

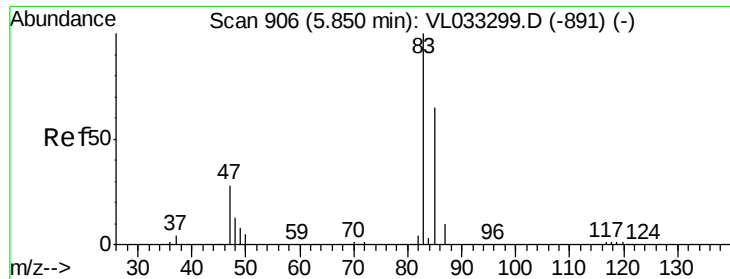
73 100

57 22.1 17.4 26.0



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

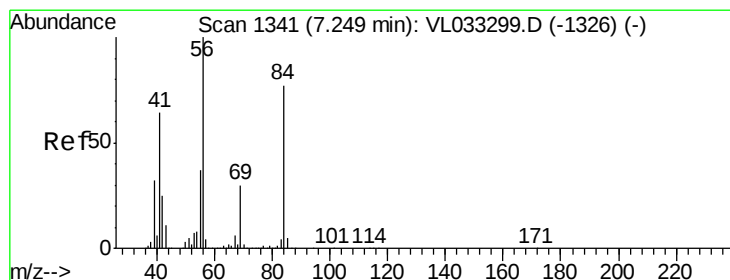
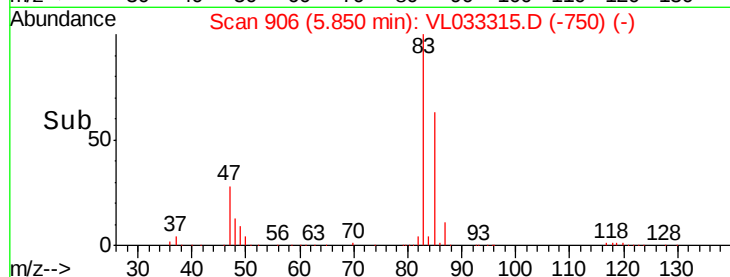
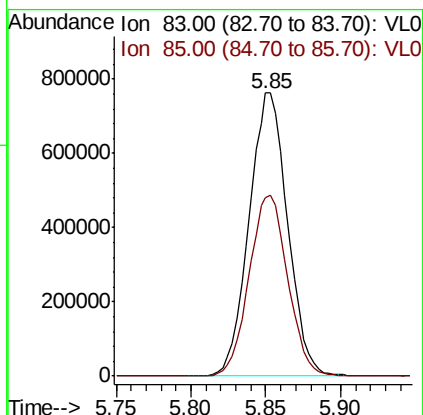
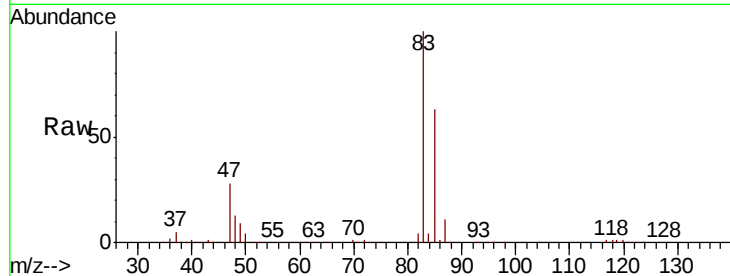




#29
Chloroform
Concen: 9.680 ppbv
RT: 5.85 min Scan# 906
Delta R.T. 0.00 min
Lab File: VL033315.D
Acq: 14 Mar 2019 14:16

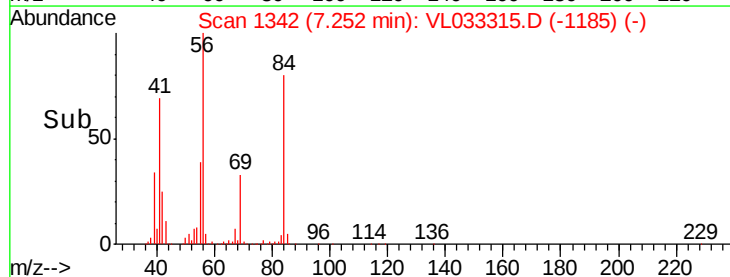
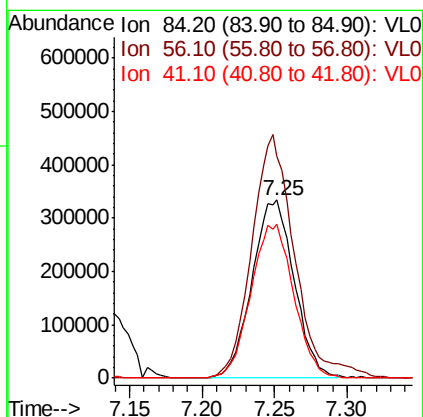
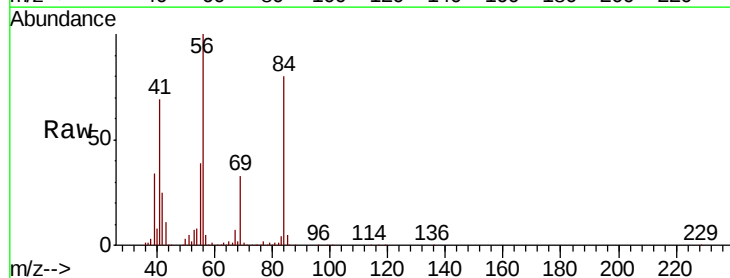
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

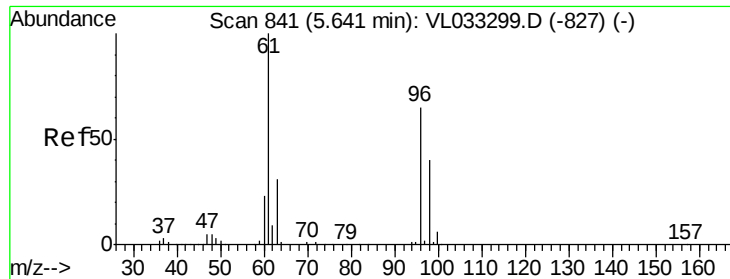
Tgt Ion: 83 Resp: 1362207
Ion Ratio Lower Upper
83 100
85 62.9 52.2 78.4



#30
Cyclohexane
Concen: 9.619 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VL033315.D
Acq: 14 Mar 2019 14:16

Tgt Ion: 84 Resp: 675972
Ion Ratio Lower Upper
84 100
56 139.1 109.8 164.8
41 87.7 68.1 102.1



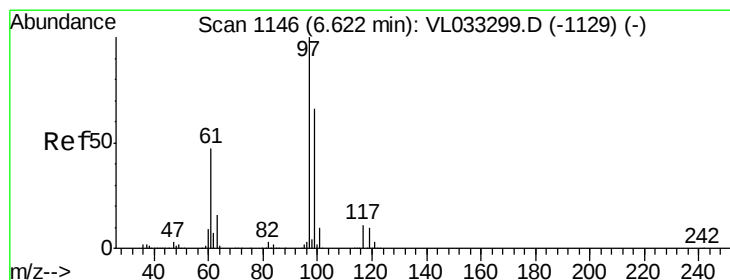
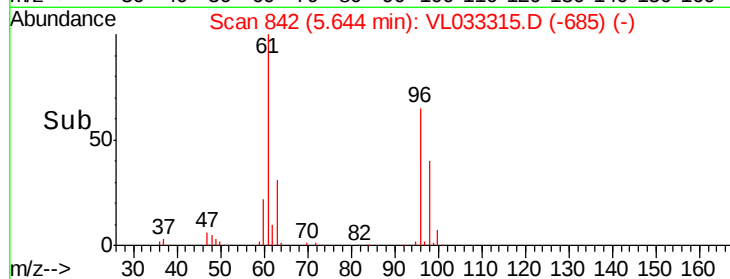
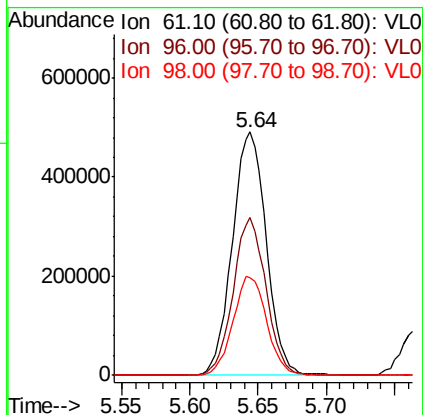
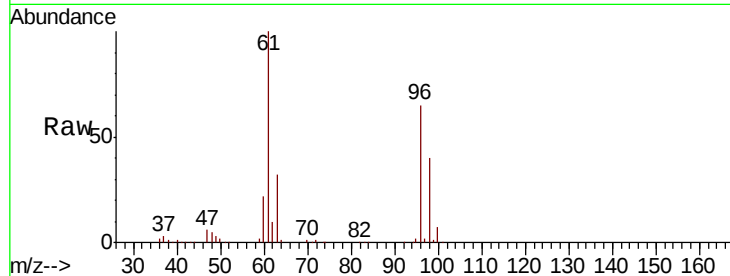


#31

cis-1,2-Dichloroethene
 Concen: 9.739 ppbv
 RT: 5.64 min Scan# 842
 Delta R.T. 0.00 min
 Lab File: VL033315.D
 Acq: 14 Mar 2019 14:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

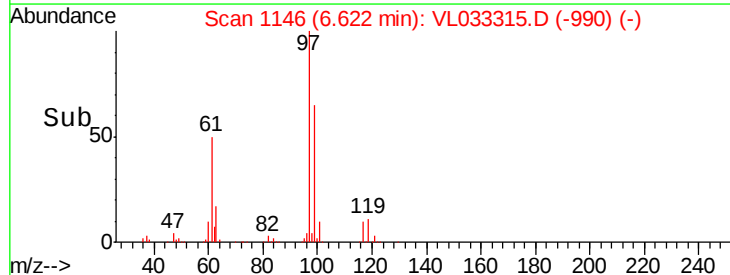
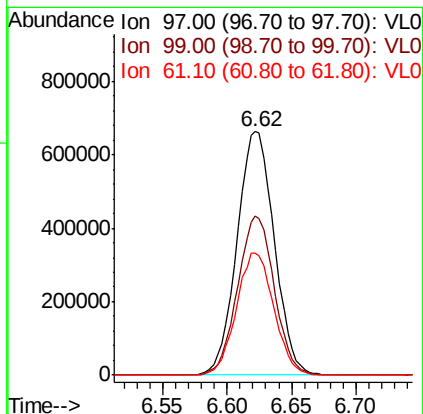
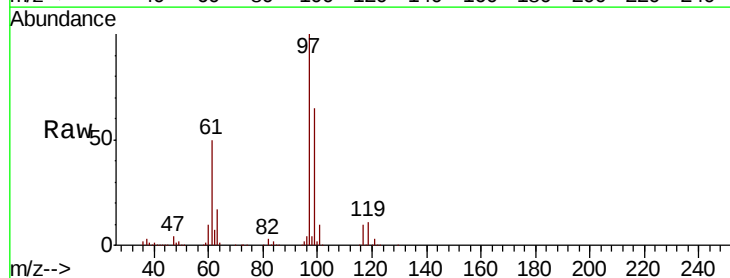
Tgt Ion: 61 Resp: 848880
 Ion Ratio Lower Upper
 61 100
 96 65.0 51.8 77.6
 98 40.0 32.3 48.5

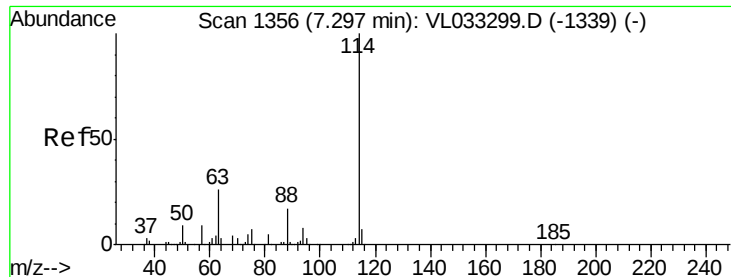


#32

1,1,1-Trichloroethane
 Concen: 9.770 ppbv
 RT: 6.62 min Scan# 1146
 Delta R.T. 0.00 min
 Lab File: VL033315.D
 Acq: 14 Mar 2019 14:16

Tgt Ion: 97 Resp: 1334252
 Ion Ratio Lower Upper
 97 100
 99 64.4 51.6 77.4
 61 50.3 39.4 59.2

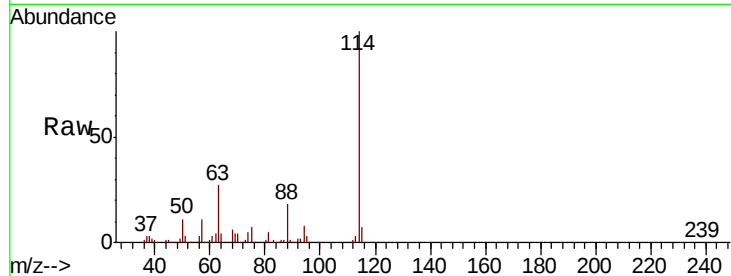




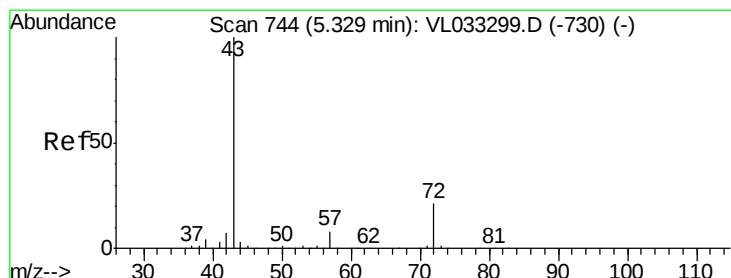
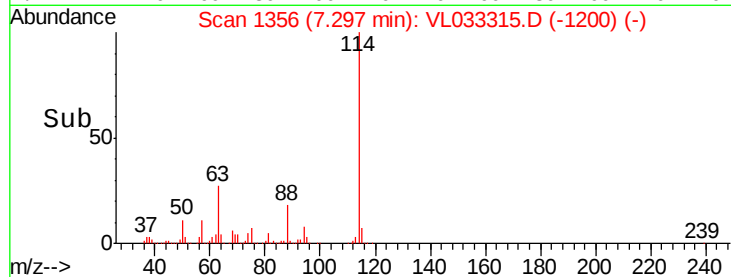
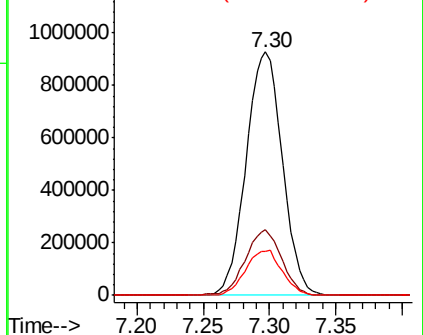
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. 0.00 min
 Lab File: VL033315.D
 Acq: 14 Mar 2019 14:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion:114 Resp: 1762646
 Ion Ratio Lower Upper
 114 100
 63 27.2 21.3 31.9
 88 18.4 14.5 21.7

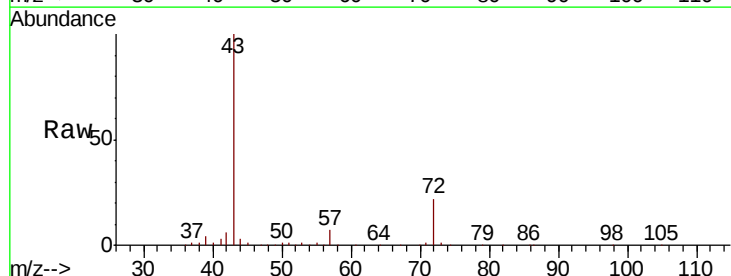


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

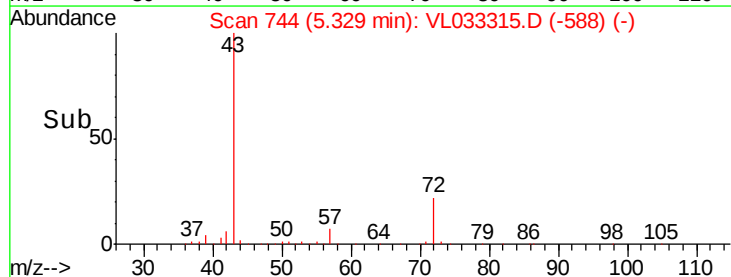
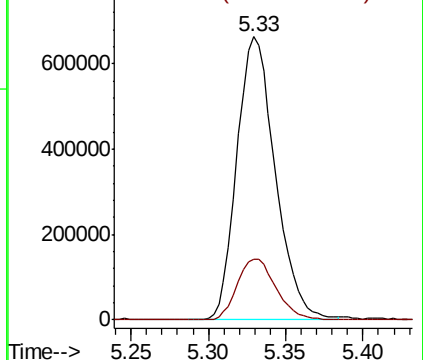


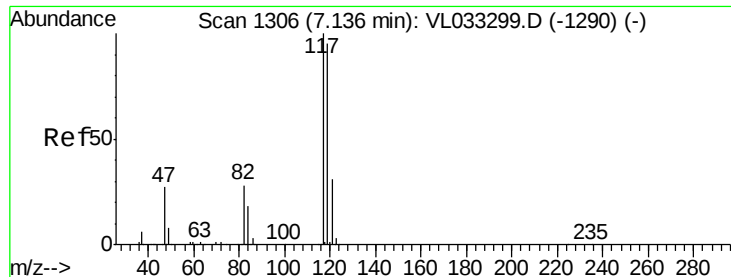
#34
 2-Butanone
 Concen: 9.335 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.00 min
 Lab File: VL033315.D
 Acq: 14 Mar 2019 14:16

Tgt Ion: 43 Resp: 1137695
 Ion Ratio Lower Upper
 43 100
 72 22.0 17.2 25.8



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





#35

Carbon Tetrachloride

Concen: 10.437 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

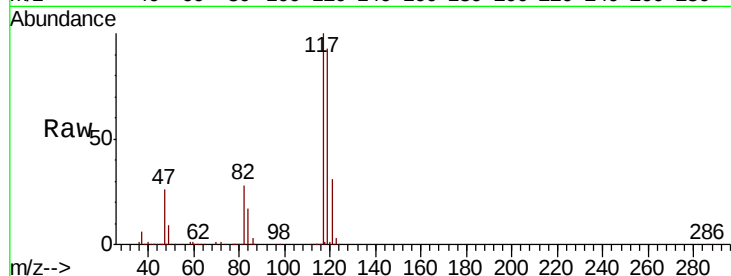
Tgt Ion:117 Resp: 1414243

Ion Ratio Lower Upper

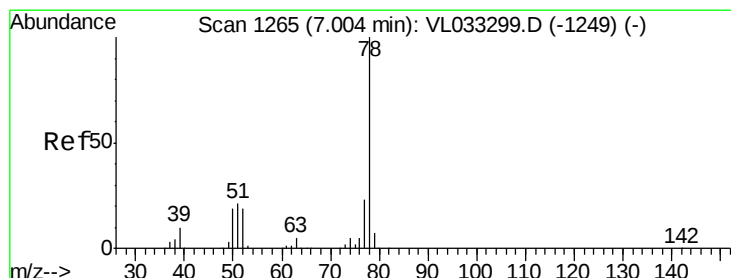
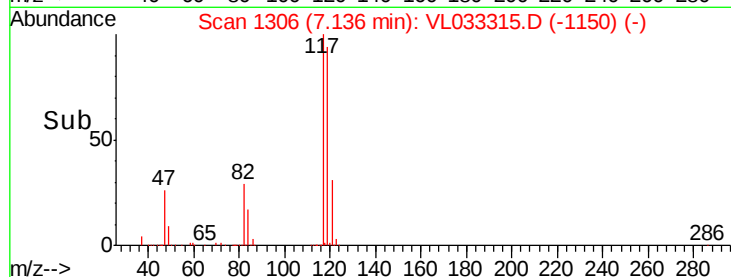
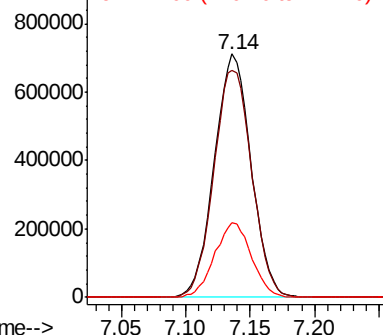
117 100

119 93.3 75.9 113.9

121 30.7 25.2 37.8



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: 9.824 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

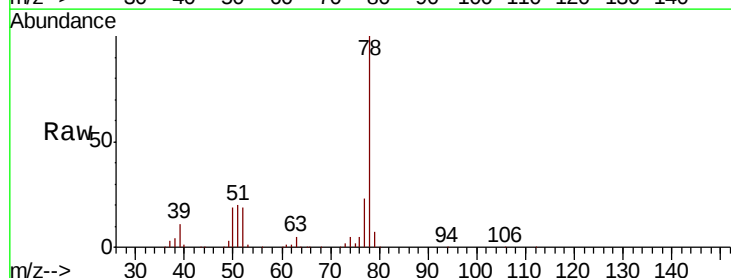
Tgt Ion: 78 Resp: 1700607

Ion Ratio Lower Upper

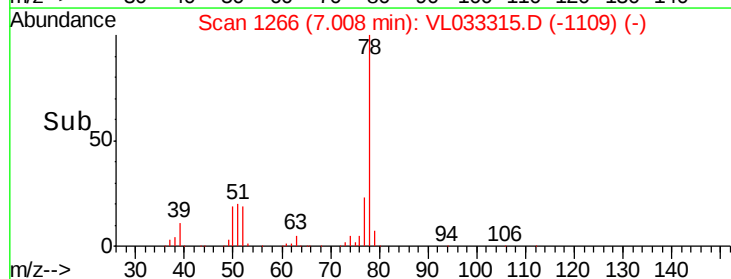
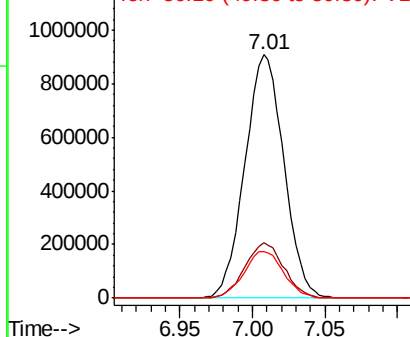
78 100

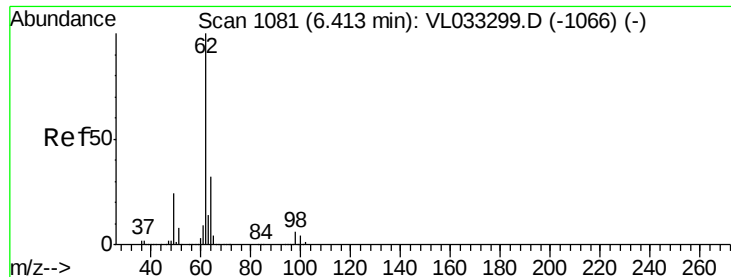
77 22.7 18.6 28.0

50 19.3 15.2 22.8



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: 10.099 ppbv

RT: 6.42 min Scan# 1082

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

Instrument :

MSVOA_L

ClientSampleId :

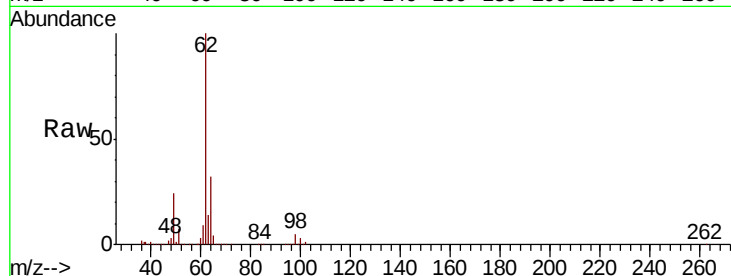
VSTDCCC010EC

Tgt Ion: 62 Resp: 1044374

Ion Ratio Lower Upper

62 100

98 5.6 4.4 6.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.42

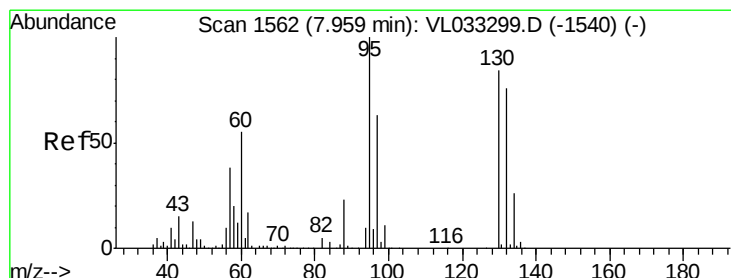
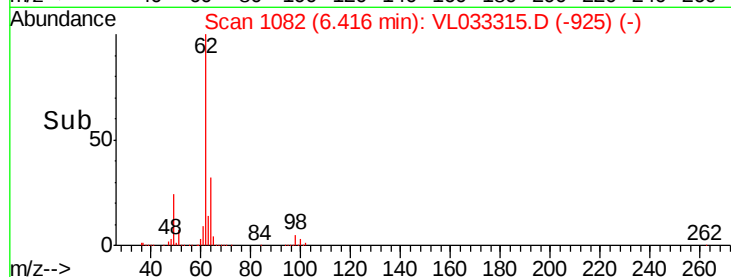
600000

400000

200000

0

Time-->



#38

Trichloroethene

Concen: 9.452 ppbv

RT: 7.96 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

Tgt Ion: 130 Resp: 646977

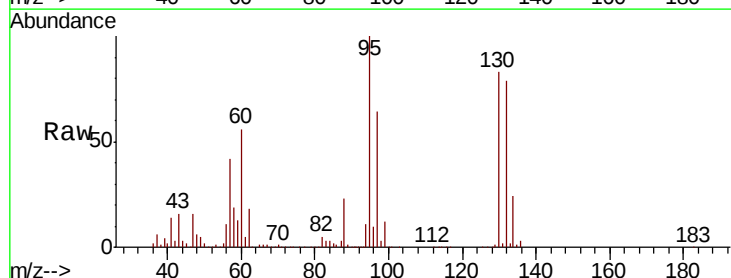
Ion Ratio Lower Upper

130 100

95 120.2 95.2 142.8

132 95.4 72.5 108.7

97 77.4 60.1 90.1



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

600000

500000

400000

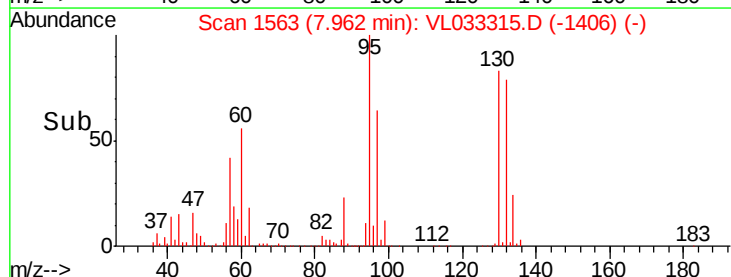
300000

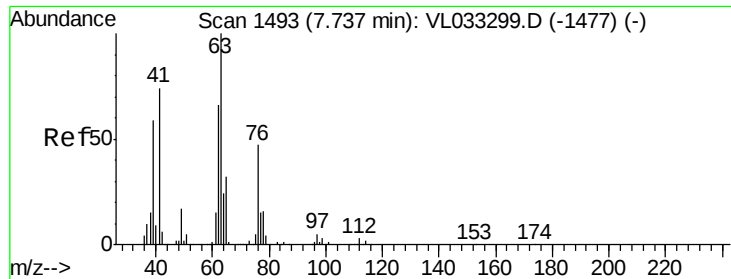
200000

100000

0

Time-->





#39

1,2-Dichloropropane

Concen: 9.684 ppbv

RT: 7.74 min Scan# 1494

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

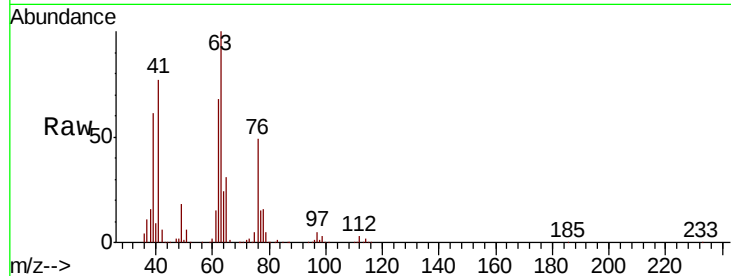
Tgt Ion: 63 Resp: 643786

Ion Ratio Lower Upper

63 100

41 76.5 59.0 88.4

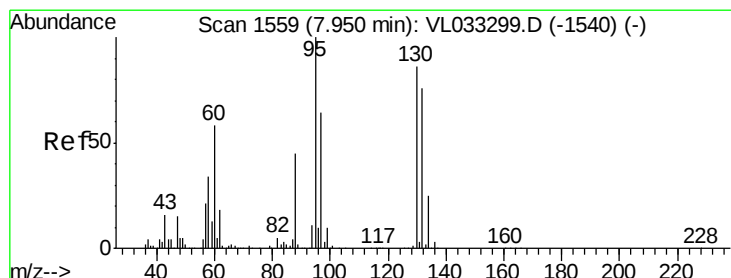
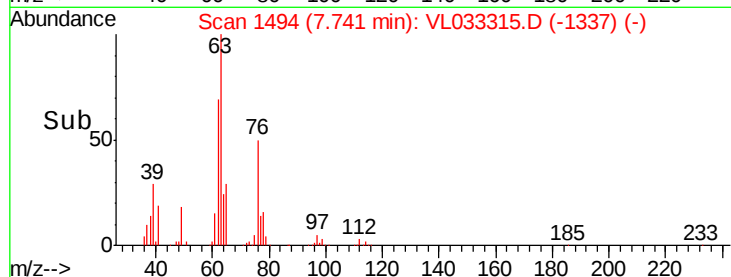
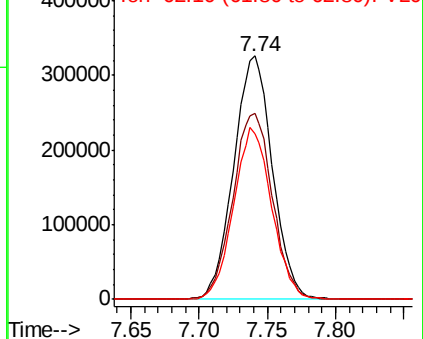
62 67.9 53.0 79.4



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: 9.977 ppbv

RT: 7.95 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

Tgt Ion: 88 Resp: 239671

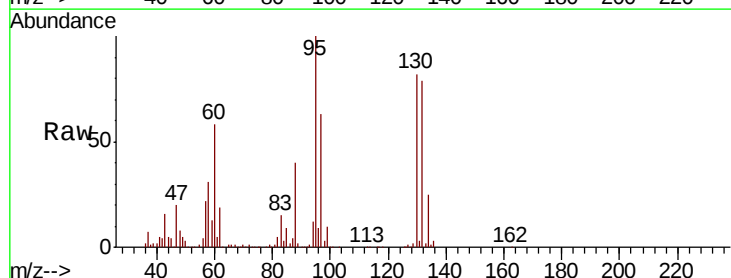
Ion Ratio Lower Upper

88 100

58 129.0 97.7 146.5

43 272.5 199.4 299.2

57 1199.7 875.6 1313.4

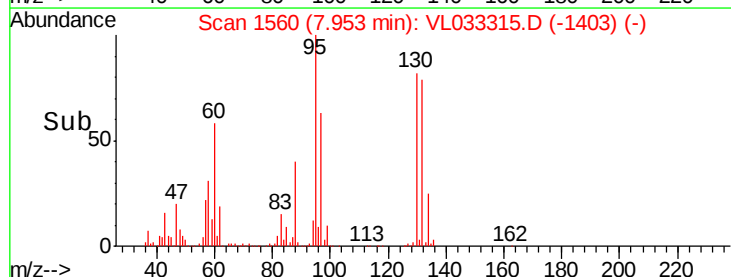
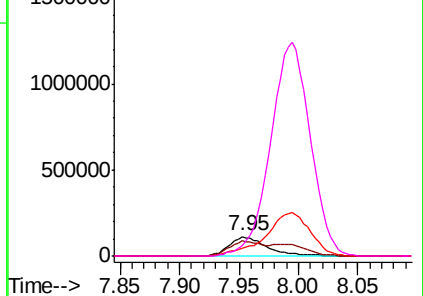


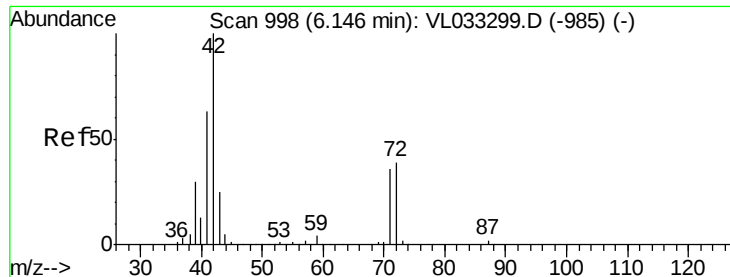
Abundance Ion 88.10 (87.80 to 88.80): VL0

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: 10.335 ppbv

RT: 6.15 min Scan# 999

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

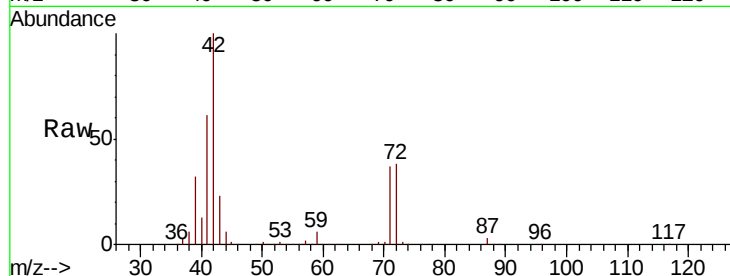
Tgt Ion: 42 Resp: 698723

Ion Ratio Lower Upper

42 100

72 38.8 30.8 46.2

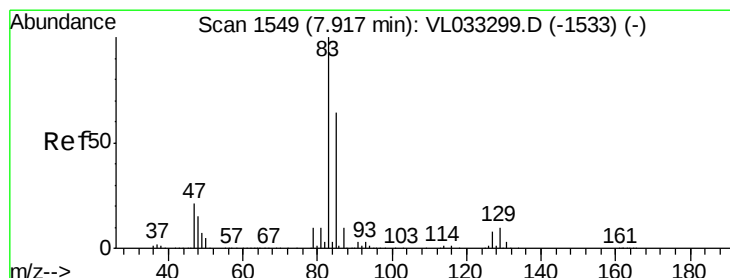
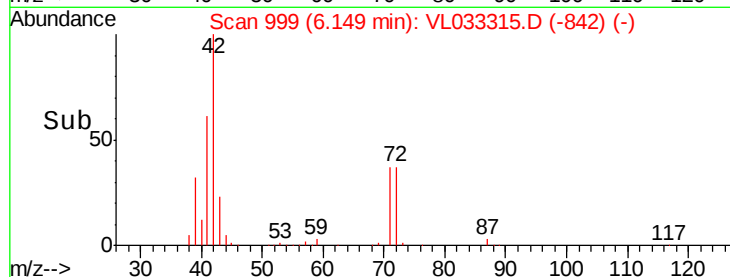
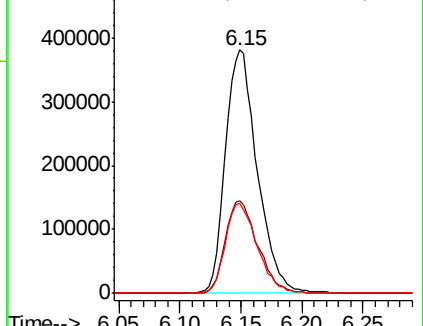
71 37.0 30.0 45.0



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: 10.321 ppbv

RT: 7.92 min Scan# 1549

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

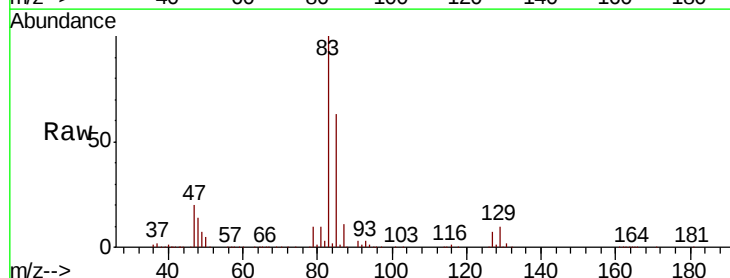
Tgt Ion: 83 Resp: 1496119

Ion Ratio Lower Upper

83 100

85 62.8 51.0 76.4

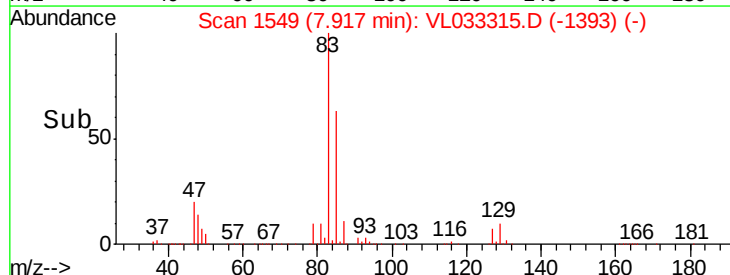
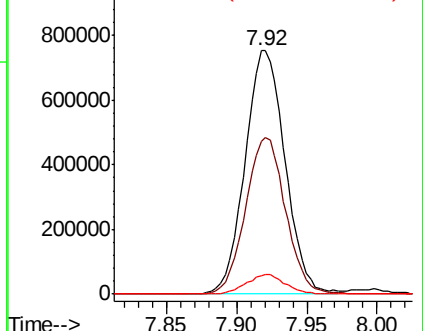
127 7.5 6.6 10.0

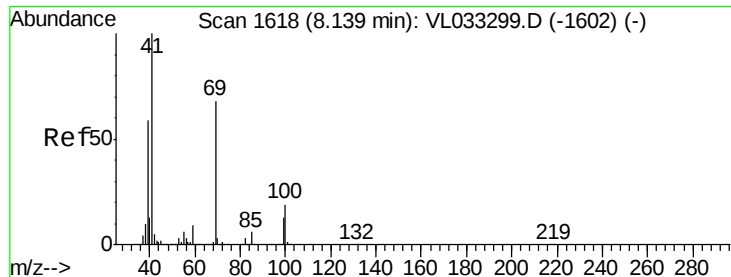


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

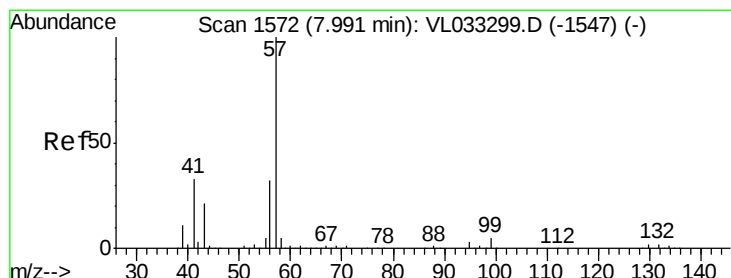
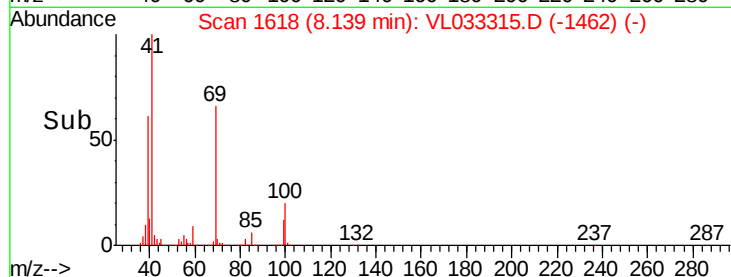
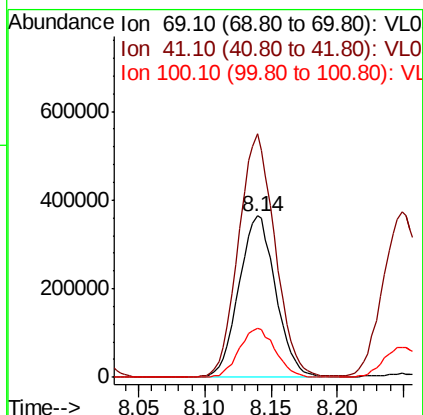
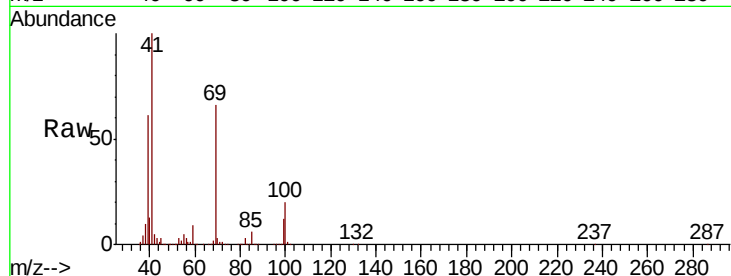




#43
Methyl Methacrylate
Concen: 10.189 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VL033315.D
Acq: 14 Mar 2019 14:16

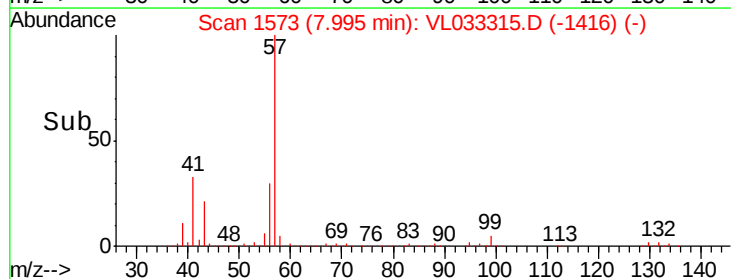
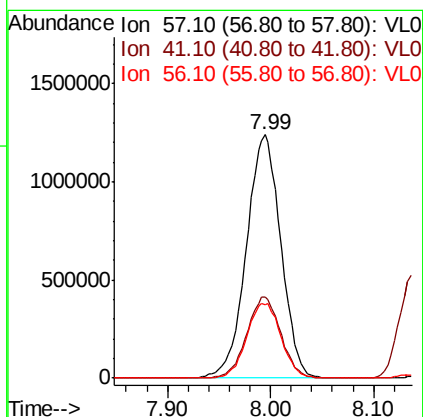
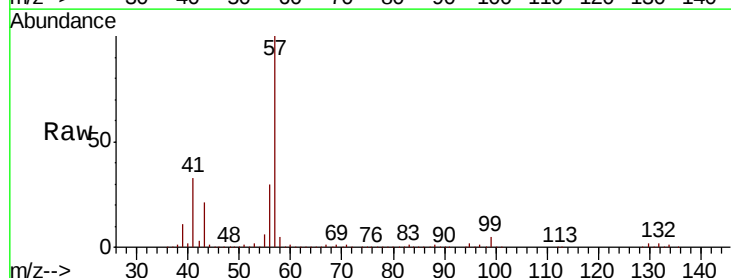
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

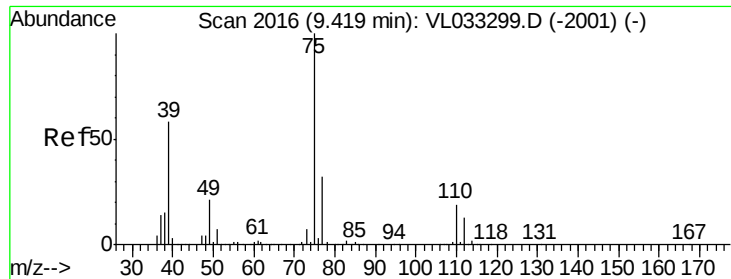
Tgt Ion: 69 Resp: 702184
Ion Ratio Lower Upper
69 100
41 149.6 117.0 175.4
100 29.8 24.3 36.5



#44
2,2,4-Trimethylpentane
Concen: 9.693 ppbv
RT: 7.99 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VL033315.D
Acq: 14 Mar 2019 14:16

Tgt Ion: 57 Resp: 2868908
Ion Ratio Lower Upper
57 100
41 32.8 25.9 38.9
56 30.6 24.6 36.8





#45

t-1,3-Dichloropropene

Concen: 11.521 ppbv

RT: 9.42 min Scan# 2016

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

Instrument :

MSVOA_L

ClientSampleId :

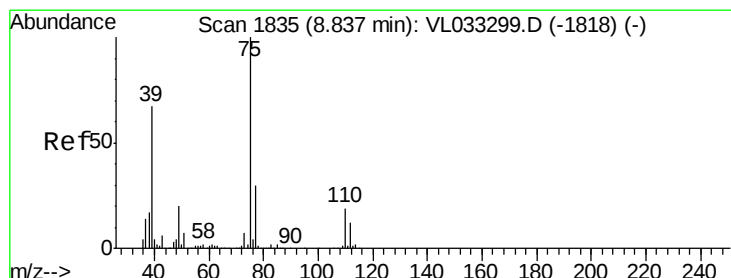
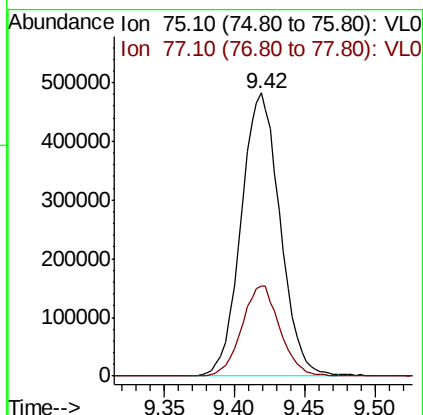
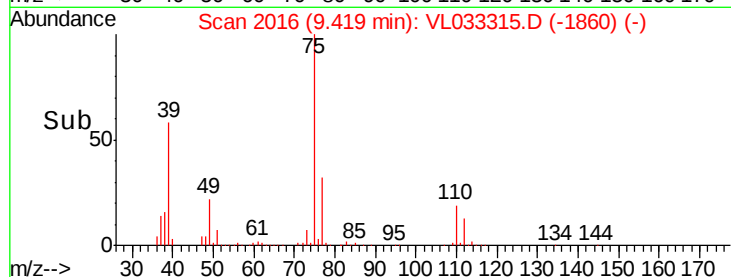
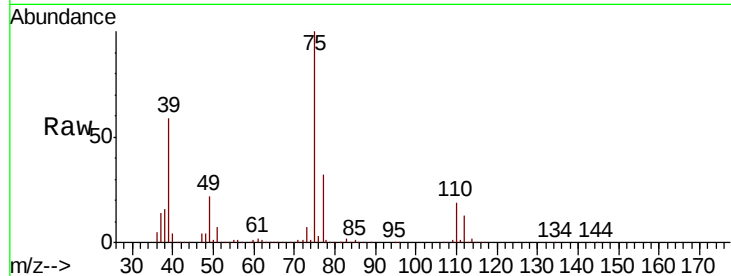
VSTDCCC010EC

Tgt Ion: 75 Resp: 931154

Ion Ratio Lower Upper

75 100

77 31.7 25.3 37.9



#46

cis-1,3-Dichloropropene

Concen: 10.885 ppbv

RT: 8.84 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

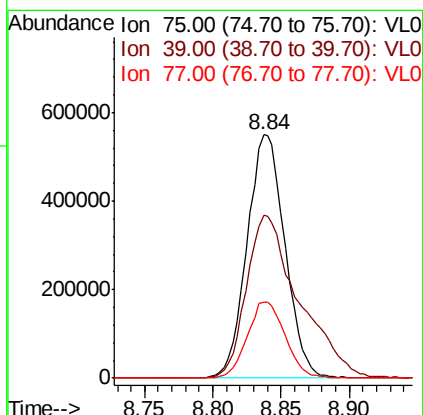
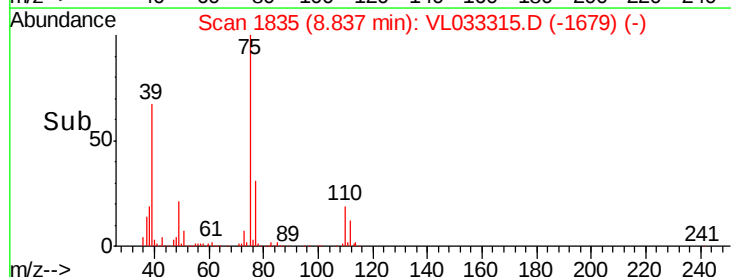
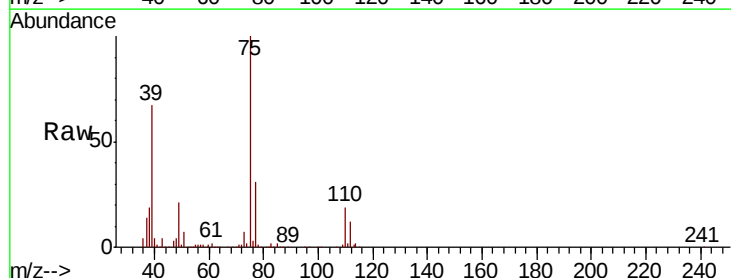
Tgt Ion: 75 Resp: 1059995

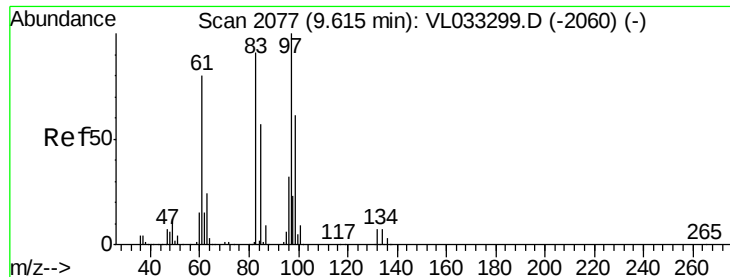
Ion Ratio Lower Upper

75 100

39 66.9 53.4 80.2

77 31.2 23.7 35.5





#47

1,1,2-Trichloroethane

Concen: 9.777 ppbv

RT: 9.62 min Scan# 2078

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 97 Resp: 695690

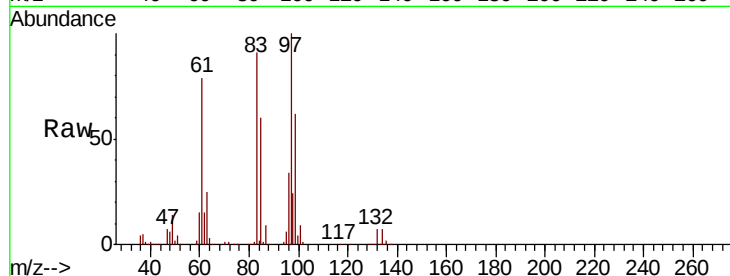
Ion Ratio Lower Upper

97 100

83 90.5 72.7 109.1

85 59.5 45.6 68.4

99 62.3 48.5 72.7

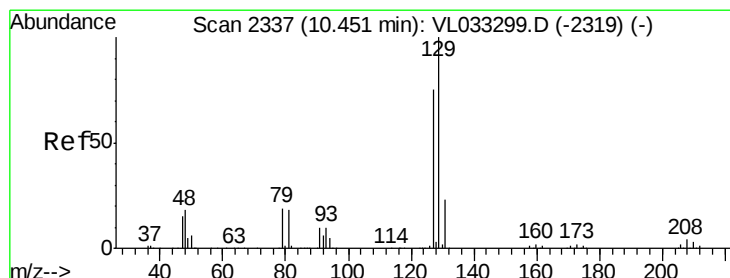
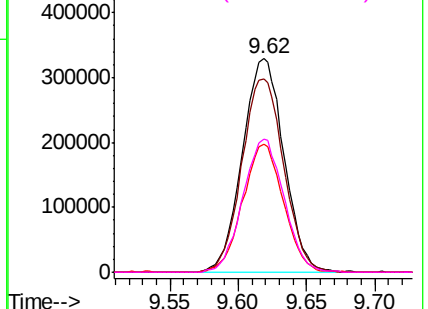
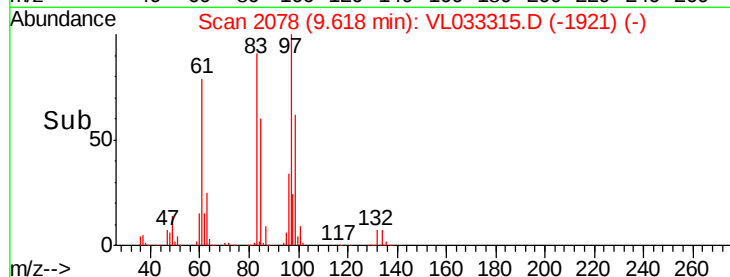


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 10.811 ppbv

RT: 10.45 min Scan# 2338

Delta R.T. 0.00 min

Lab File: VL033315.D

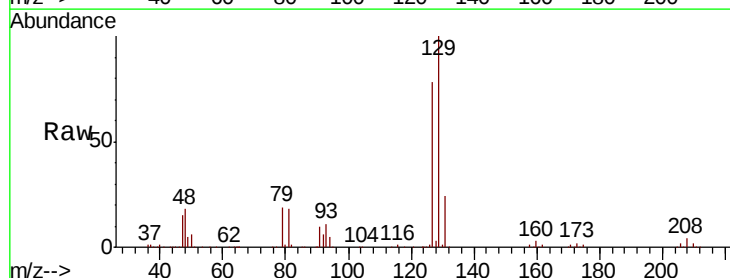
Acq: 14 Mar 2019 14:16

Tgt Ion: 129 Resp: 1265539

Ion Ratio Lower Upper

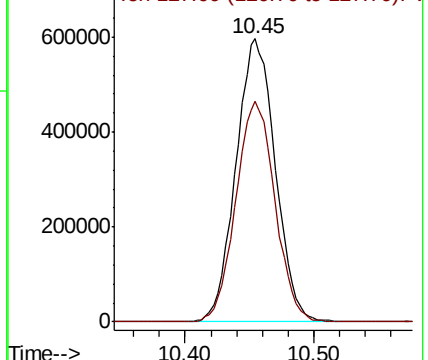
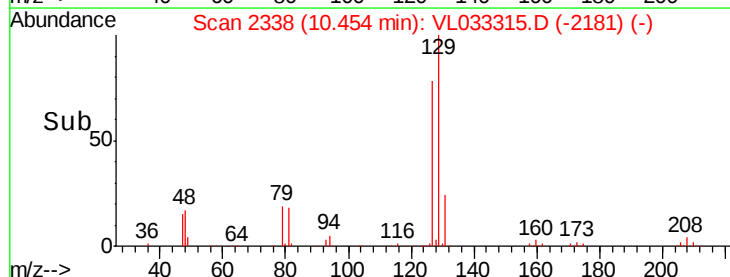
129 100

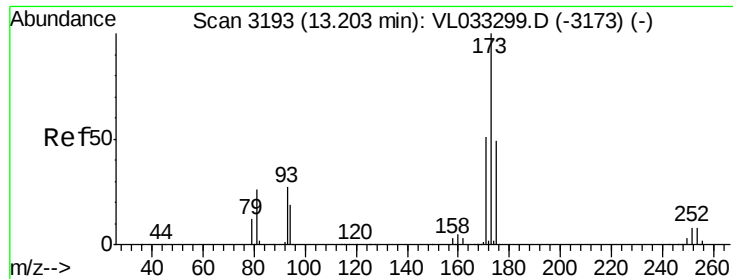
127 77.5 39.0 117.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 12.329 ppbv

RT: 13.21 min Scan# 3194

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

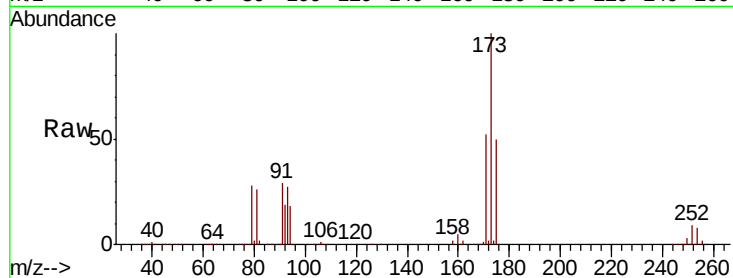
Tgt Ion:173 Resp: 1250374

Ion Ratio Lower Upper

173 100

175 48.1 38.6 58.0

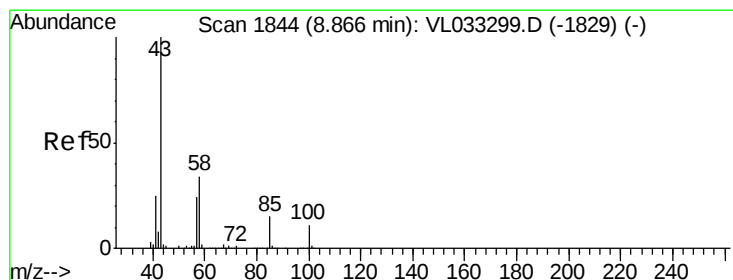
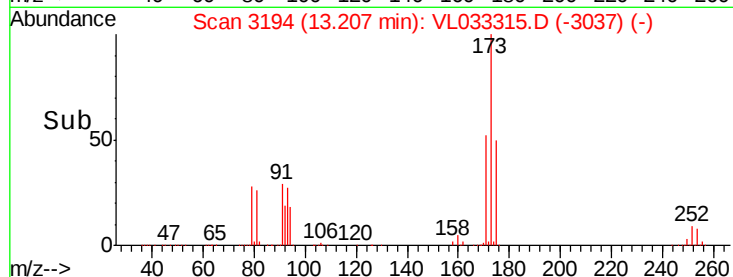
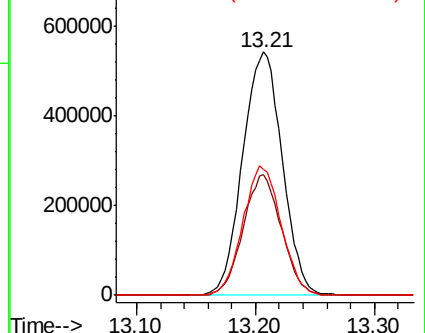
171 51.6 42.0 63.0



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: 9.961 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. 0.00 min

Lab File: VL033315.D

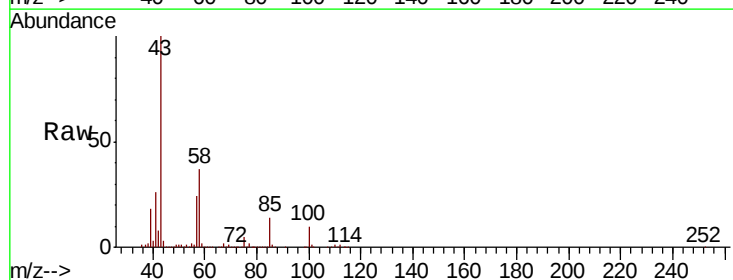
Acq: 14 Mar 2019 14:16

Tgt Ion: 43 Resp: 1758853

Ion Ratio Lower Upper

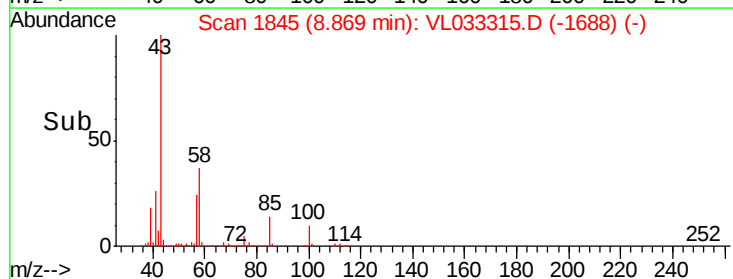
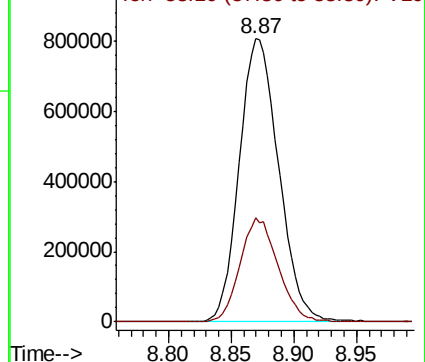
43 100

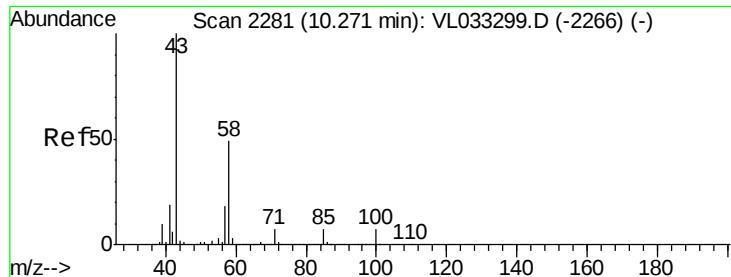
58 35.6 28.2 42.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

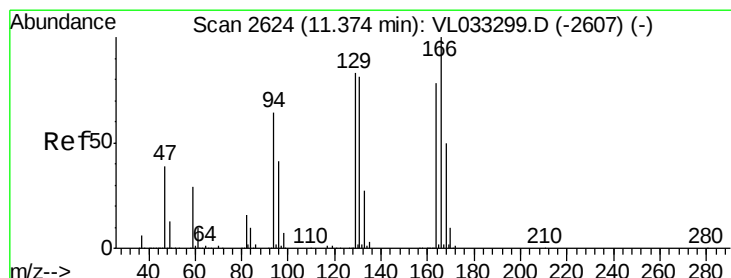
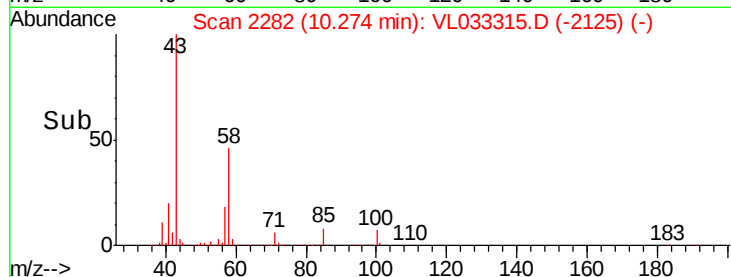
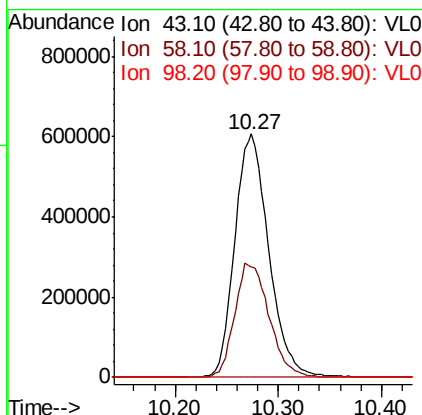
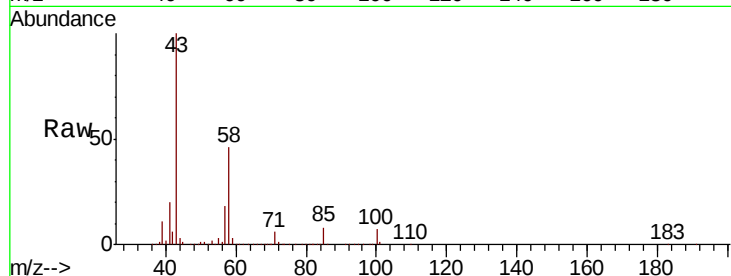




#51
2-Hexanone
Concen: 10.311 ppbv
RT: 10.27 min Scan# 2282
Delta R.T. 0.00 min
Lab File: VL033315.D
Acq: 14 Mar 2019 14:16

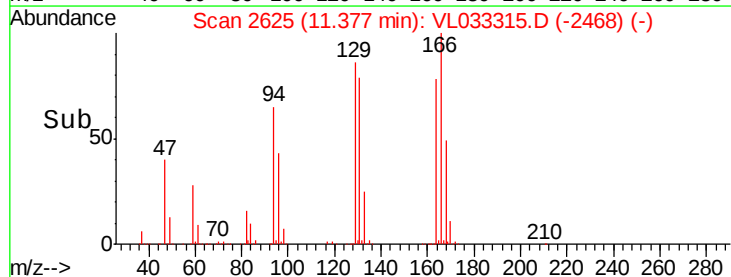
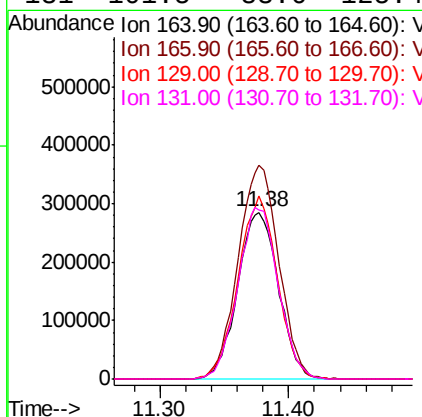
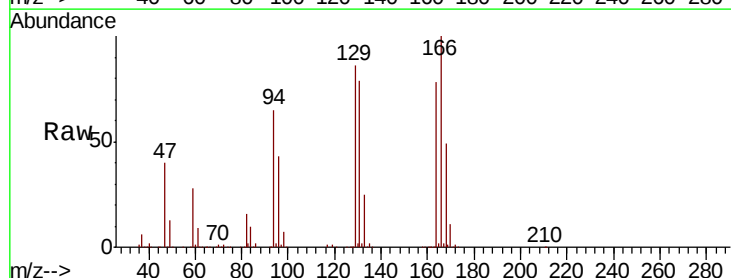
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

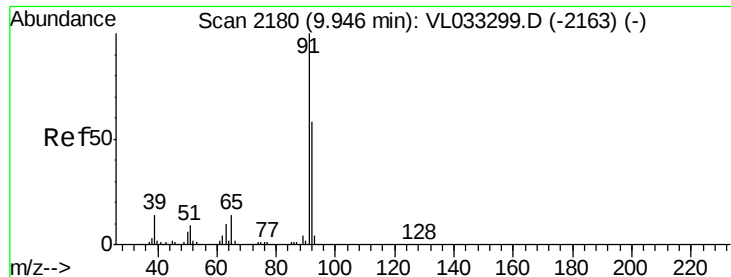
Tgt Ion: 43 Resp: 1390126
Ion Ratio Lower Upper
43 100
58 47.5 38.4 57.6
98 0.3 0.2 0.2#



#52
Tetrachloroethene
Concen: 8.830 ppbv
RT: 11.38 min Scan# 2625
Delta R.T. 0.00 min
Lab File: VL033315.D
Acq: 14 Mar 2019 14:16

Tgt Ion: 164 Resp: 627878
Ion Ratio Lower Upper
164 100
166 127.9 103.2 154.8
129 109.5 85.8 128.8
131 101.5 83.6 125.4





#53

Toluene

Concen: 10.145 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

Instrument :

MSVOA_L

ClientSampleId :

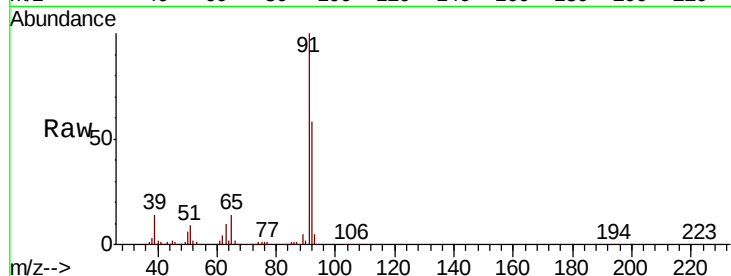
VSTDCCC010EC

Tgt Ion: 91 Resp: 2010889

Ion Ratio Lower Upper

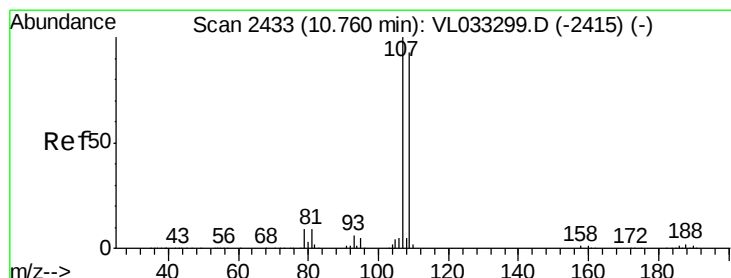
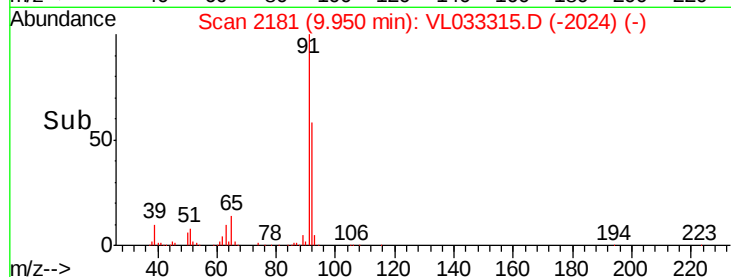
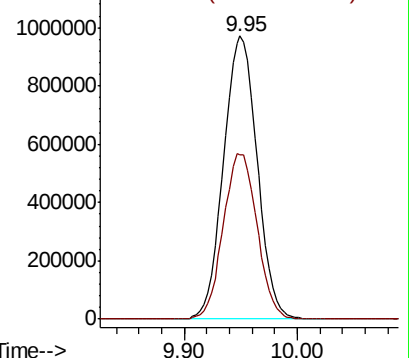
91 100

92 58.9 47.4 71.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 9.910 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. 0.00 min

Lab File: VL033315.D

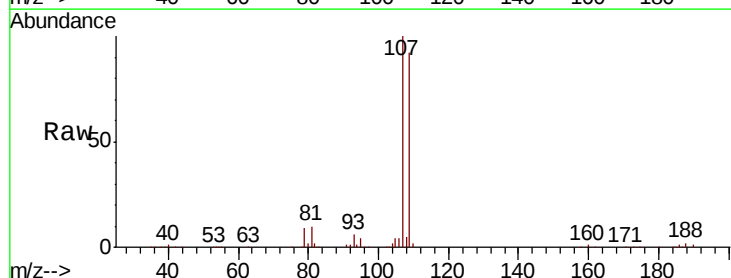
Acq: 14 Mar 2019 14:16

Tgt Ion: 107 Resp: 1125659

Ion Ratio Lower Upper

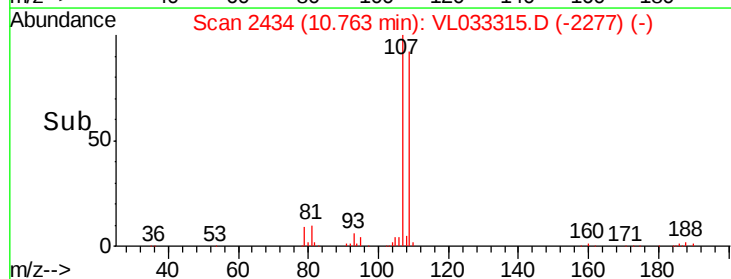
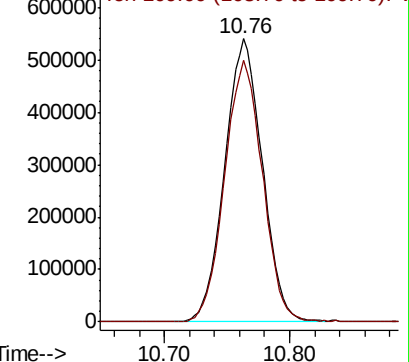
107 100

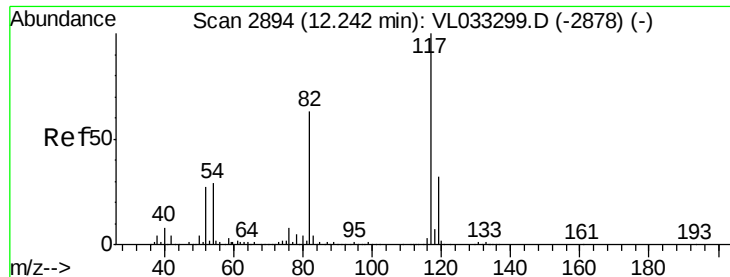
109 92.3 74.3 111.5



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2895

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

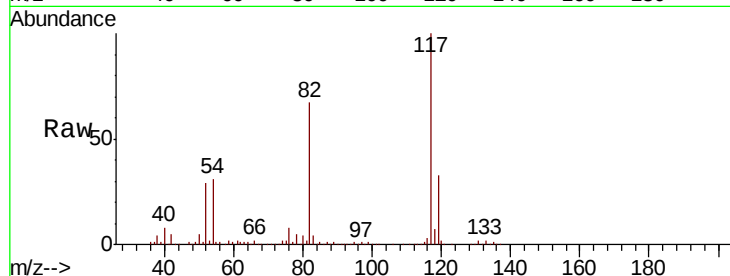
Tgt Ion:117 Resp: 2605554

Ion Ratio Lower Upper

117 100

82 53.5 51.3 76.9

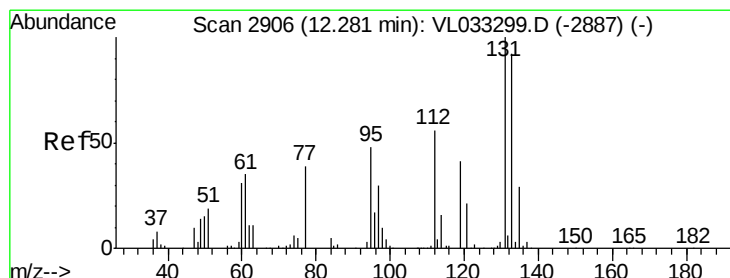
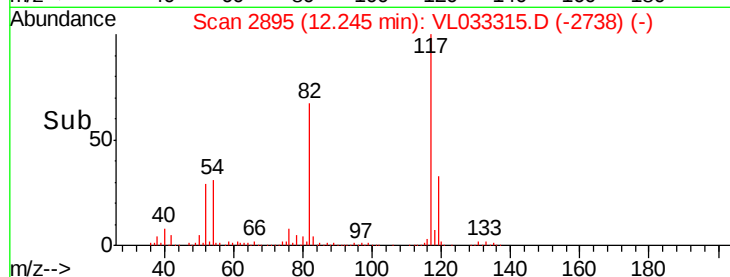
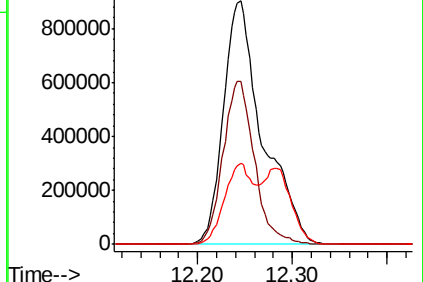
119 25.4 27.0 40.4#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 8.429 ppbv

RT: 12.28 min Scan# 2906

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

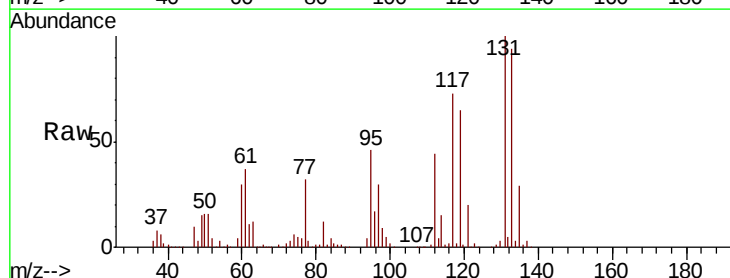
Tgt Ion:131 Resp: 985398

Ion Ratio Lower Upper

131 100

133 95.4 75.3 112.9

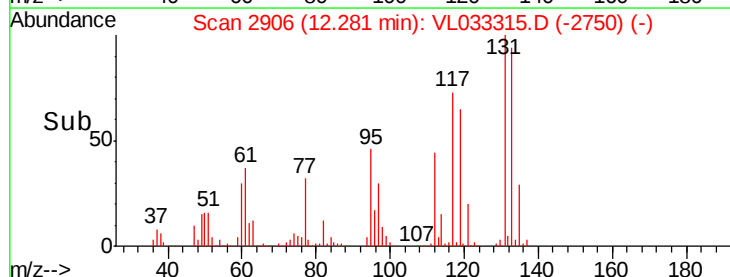
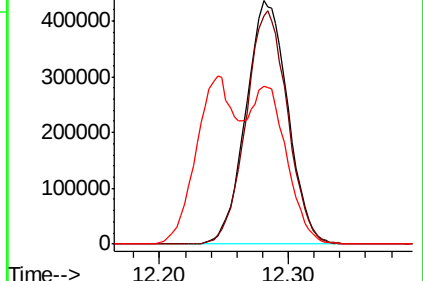
119 58.5 45.0 67.4

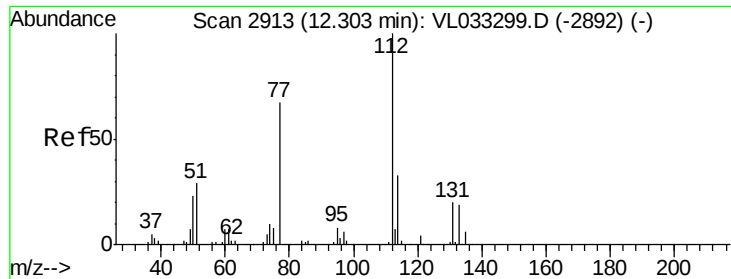


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

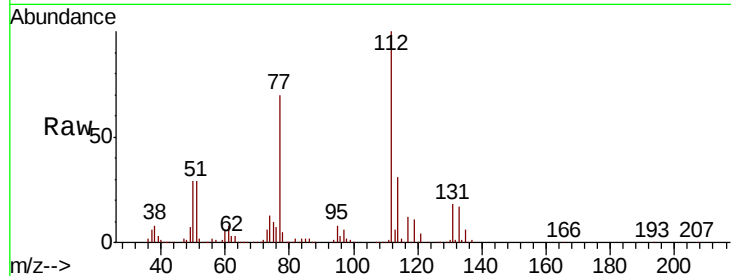




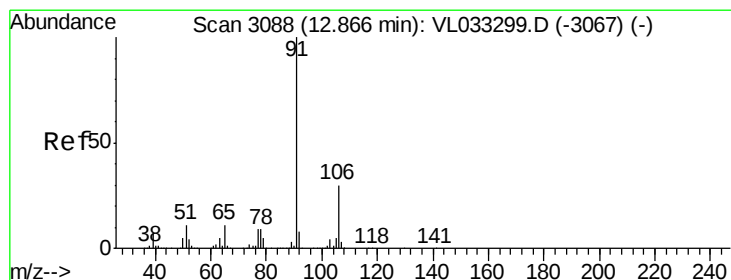
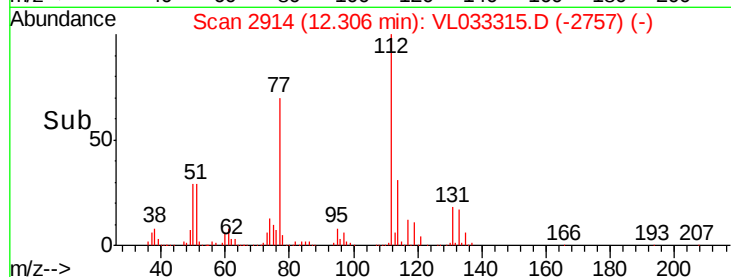
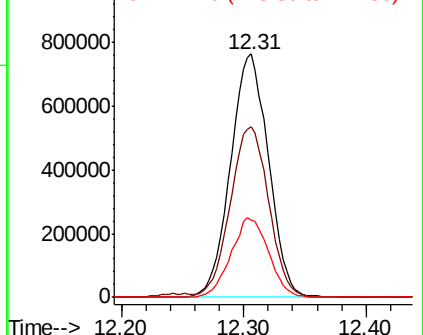
#57
Chlorobenzene
Concen: 7.832 ppbv
RT: 12.31 min Scan# 2914
Delta R.T. 0.00 min
Lab File: VL033315.D
Acq: 14 Mar 2019 14:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 112 Resp: 1647485
Ion Ratio Lower Upper
112 100
77 69.9 54.7 82.1
114 31.4 29.6 36.2

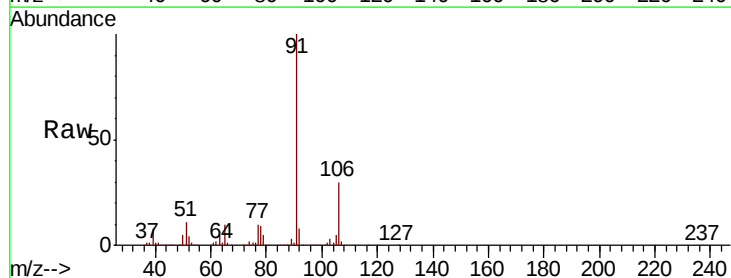


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

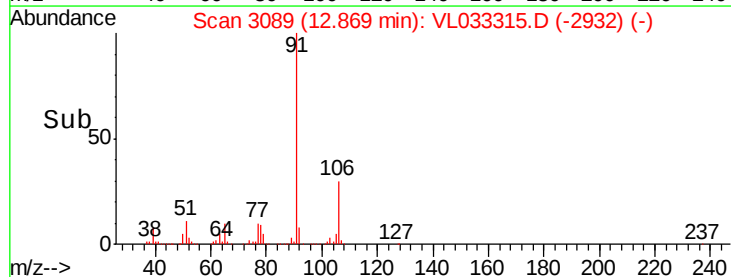
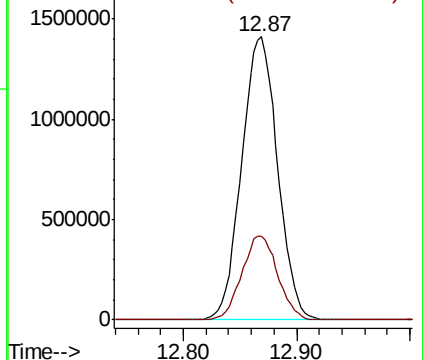


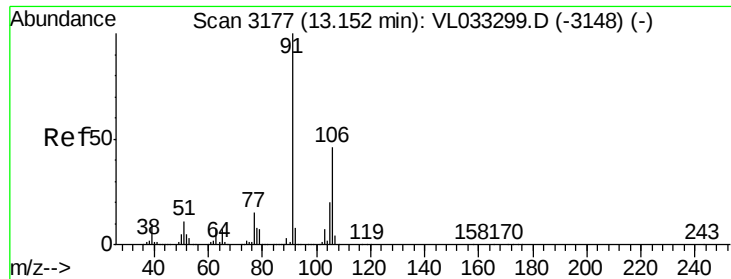
#58
Ethyl Benzene
Concen: 8.329 ppbv
RT: 12.87 min Scan# 3089
Delta R.T. 0.00 min
Lab File: VL033315.D
Acq: 14 Mar 2019 14:16

Tgt Ion: 91 Resp: 3115333
Ion Ratio Lower Upper
91 100
106 29.6 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V

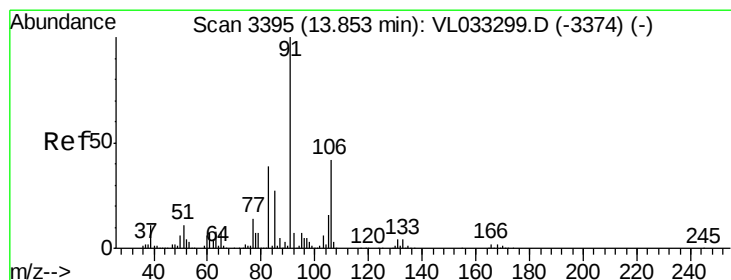
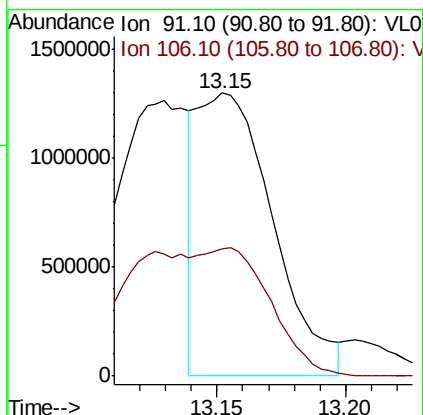
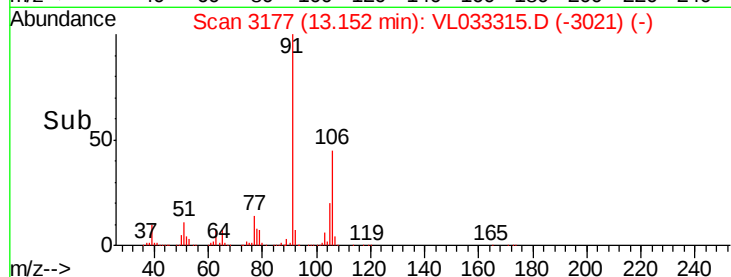
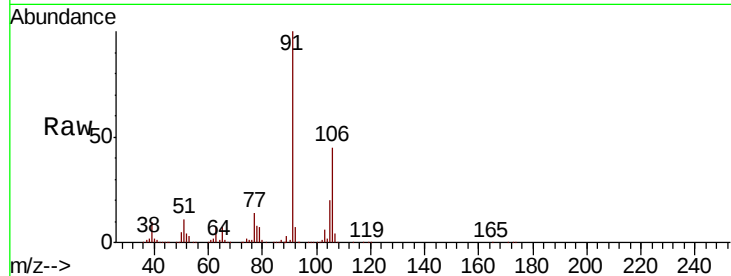




#59
m/p-Xylene
Concen: 8.391 ppbv
RT: 13.15 min Scan# 3177
Delta R.T. 0.00 min
Lab File: VL033315.D
Acq: 14 Mar 2019 14:16

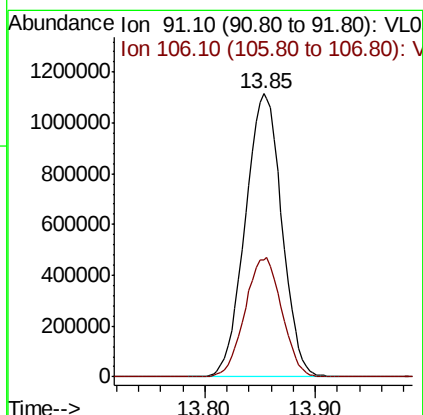
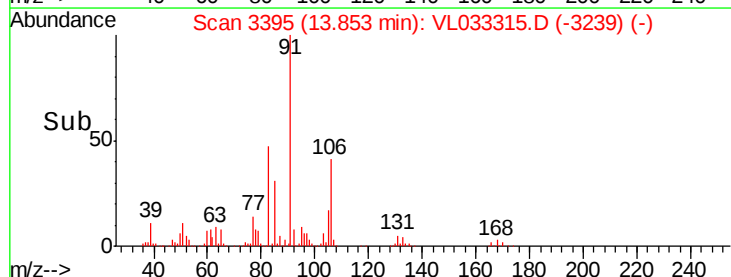
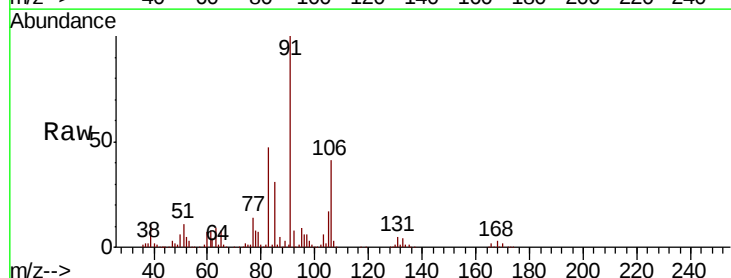
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

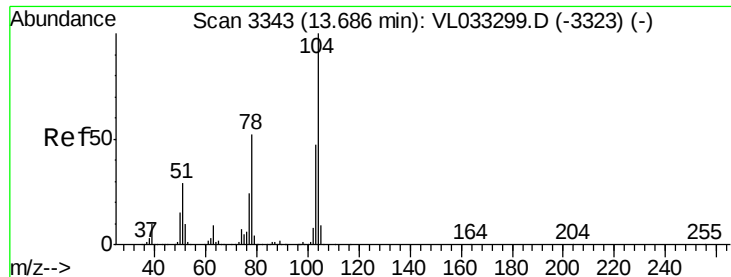
Tgt Ion: 91 Resp: 2638911
Ion Ratio Lower Upper
91 100
106 87.6 0.0 0.0#



#60
o-Xylene
Concen: 8.434 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. 0.00 min
Lab File: VL033315.D
Acq: 14 Mar 2019 14:16

Tgt Ion: 91 Resp: 2558466
Ion Ratio Lower Upper
91 100
106 42.3 21.4 64.3

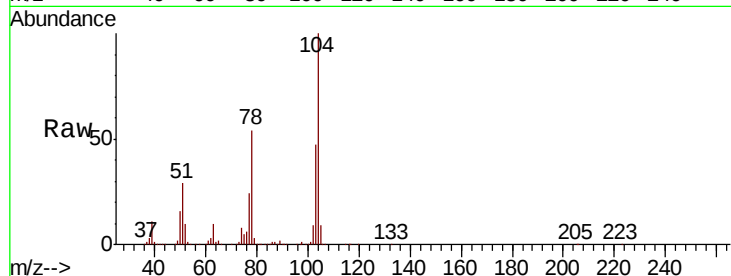




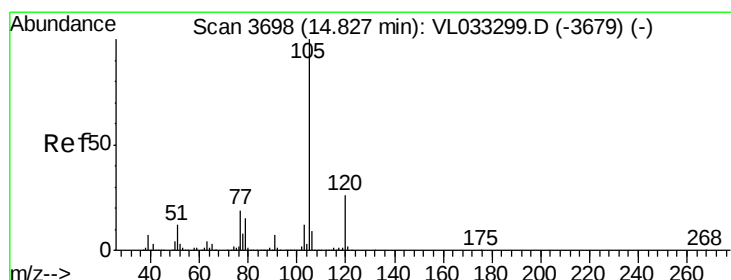
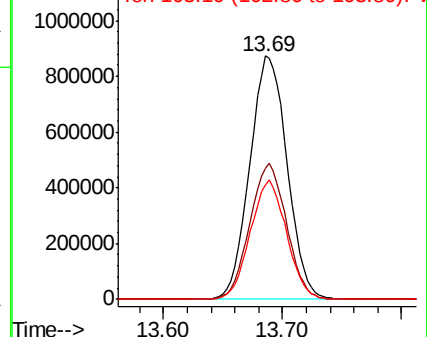
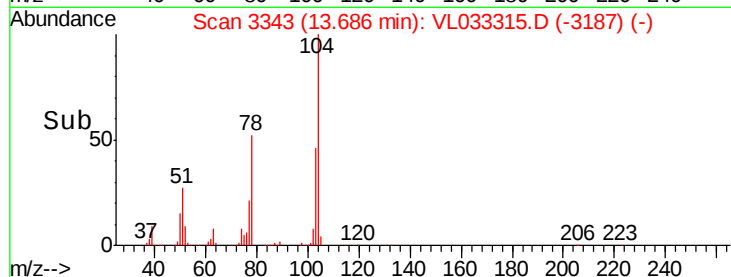
#61
Styrene
Concen: 8.912 ppbv
RT: 13.69 min Scan# 3343
Delta R.T. 0.00 min
Lab File: VL033315.D
Acq: 14 Mar 2019 14:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion:104 Resp: 1897104
Ion Ratio Lower Upper
104 100
78 54.9 43.3 64.9
103 47.6 38.2 57.2

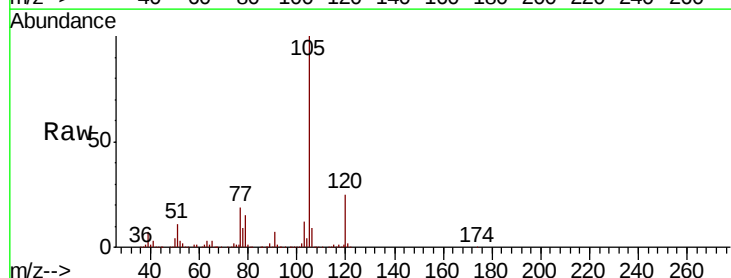


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V

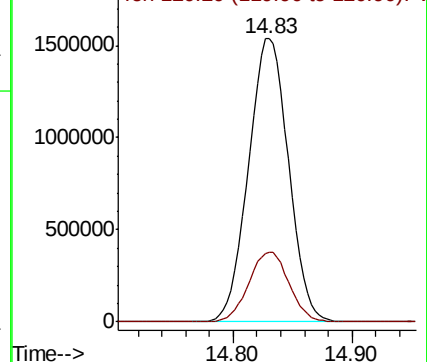
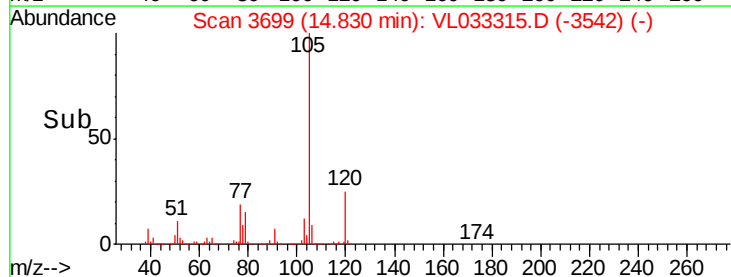


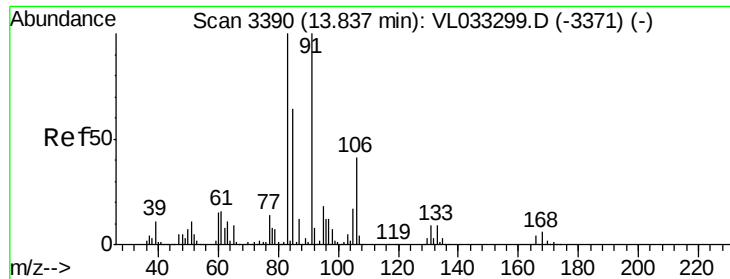
#62
Isopropylbenzene
Concen: 8.385 ppbv
RT: 14.83 min Scan# 3699
Delta R.T. 0.00 min
Lab File: VL033315.D
Acq: 14 Mar 2019 14:16

Tgt Ion:105 Resp: 3578682
Ion Ratio Lower Upper
105 100
120 24.8 19.9 29.9



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V

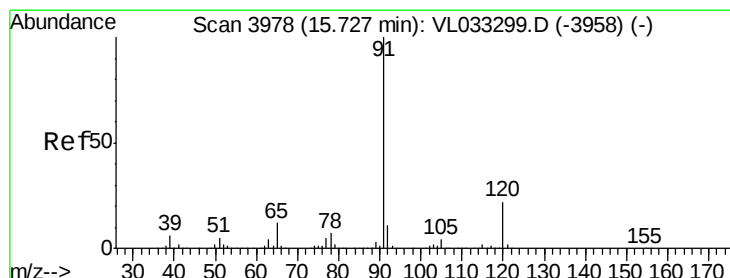
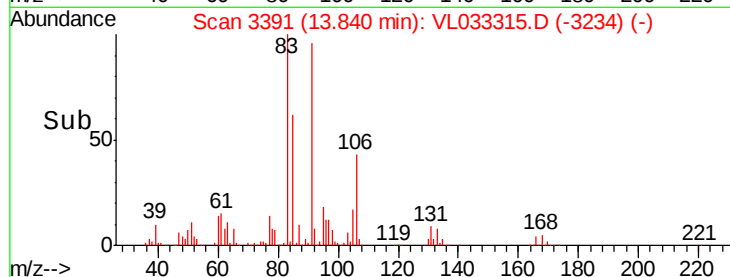
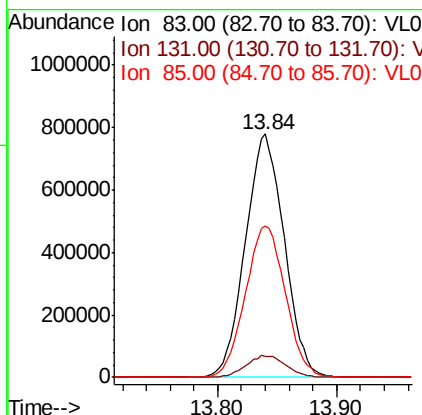
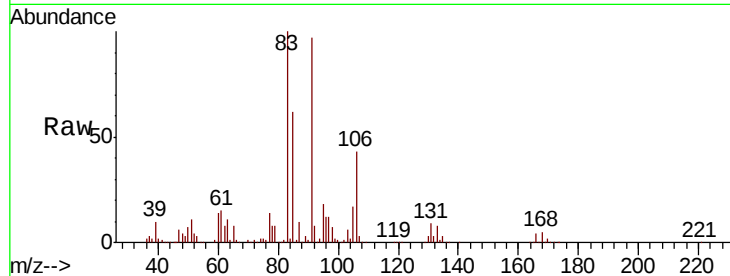




#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.064 ppbv
 RT: 13.84 min Scan# 3391
 Delta R.T. 0.00 min
 Lab File: VL033315.D
 Acq: 14 Mar 2019 14:16

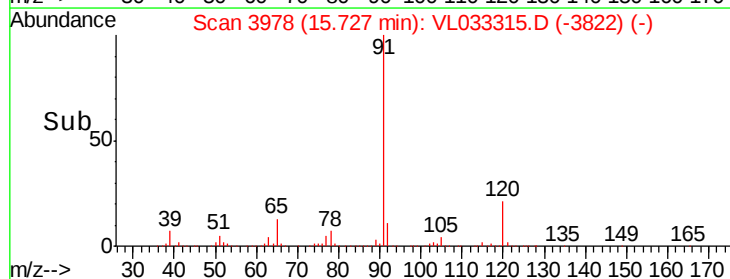
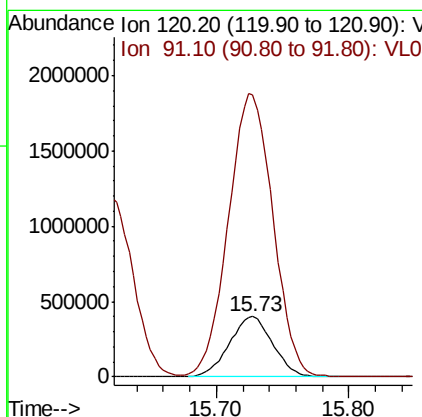
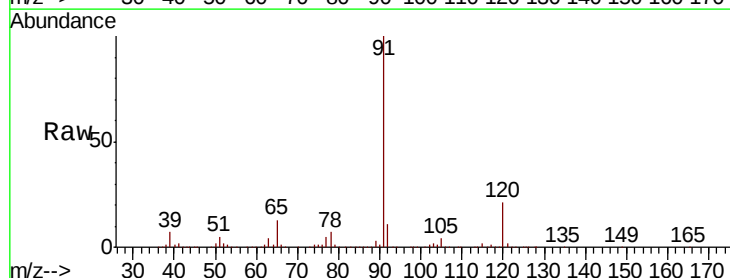
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

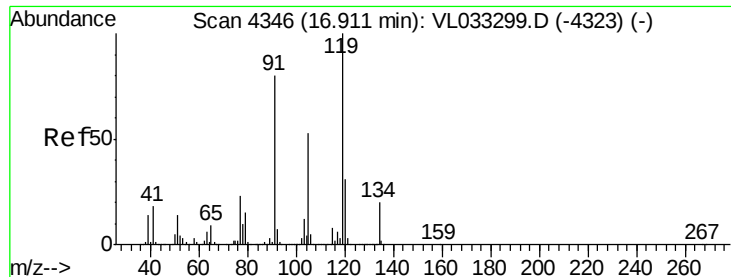
Tgt Ion: 83 Resp: 1763067
 Ion Ratio Lower Upper
 83 100
 131 9.2 4.6 13.8
 85 64.1 32.5 97.4



#64
 n-propylbenzene
 Concen: 8.538 ppbv
 RT: 15.73 min Scan# 3978
 Delta R.T. 0.00 min
 Lab File: VL033315.D
 Acq: 14 Mar 2019 14:16

Tgt Ion: 120 Resp: 903611
 Ion Ratio Lower Upper
 120 100
 91 486.5 393.7 590.5

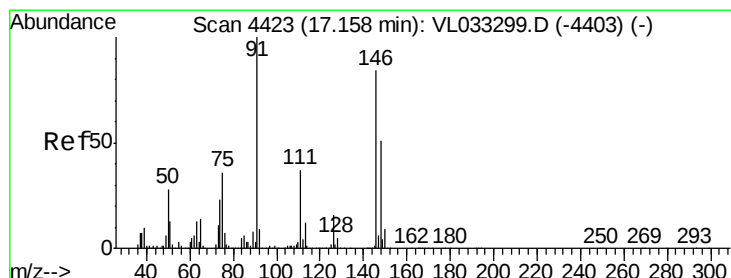
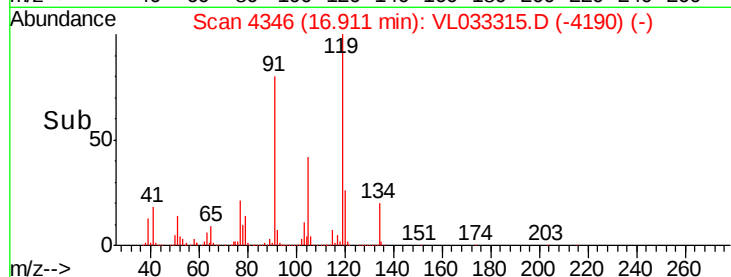
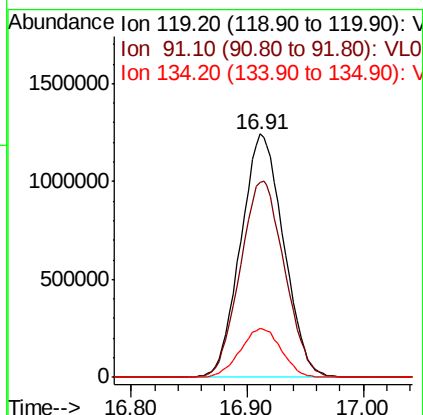
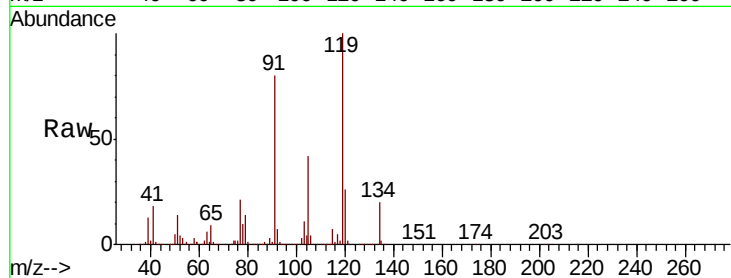




#65
tert-Butylbenzene
Concen: 8.858 ppbv
RT: 16.91 min Scan# 4346
Delta R.T. 0.00 min
Lab File: VL033315.D
Acq: 14 Mar 2019 14:16

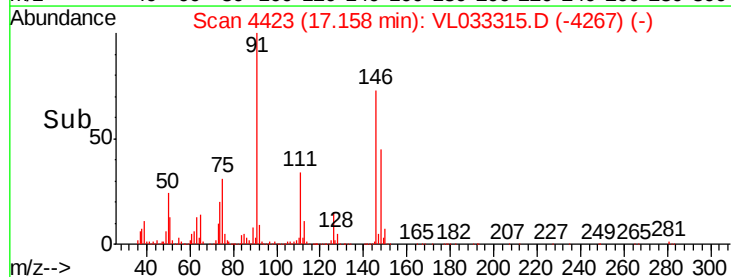
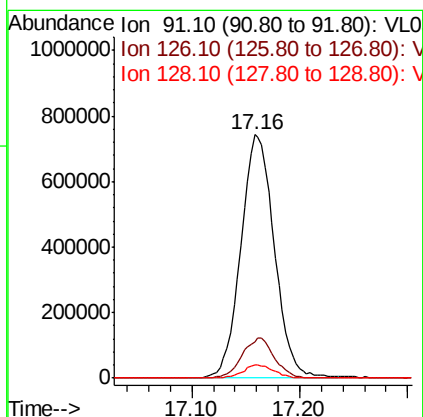
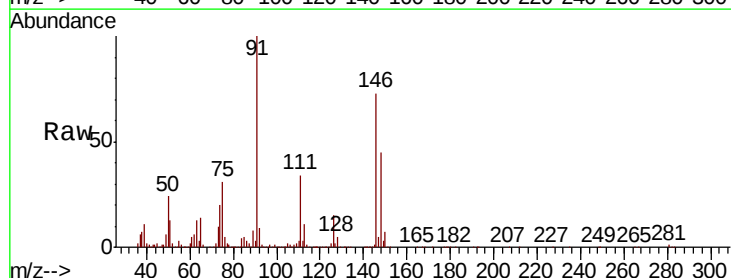
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

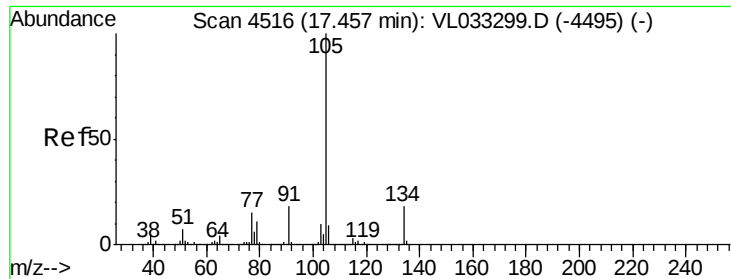
Tgt Ion: 119 Resp: 3195030
Ion Ratio Lower Upper
119 100
91 83.4 66.4 99.6
134 19.3 15.4 23.2



#66
Benzyl Chloride
Concen: 11.165 ppbv
RT: 17.16 min Scan# 4423
Delta R.T. 0.00 min
Lab File: VL033315.D
Acq: 14 Mar 2019 14:16

Tgt Ion: 91 Resp: 1602282
Ion Ratio Lower Upper
91 100
126 16.1 12.9 19.3
128 5.2 4.2 6.2





#67

sec-Butylbenzene

Concen: 8.760 ppbv

RT: 17.46 min Scan# 4518

Delta R.T. 0.01 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

Instrument :

MSVOA_L

ClientSampleId :

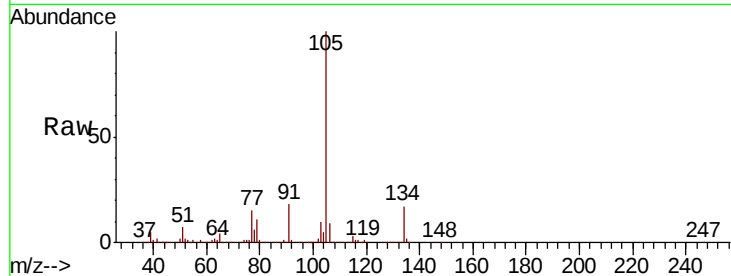
VSTDCCC010EC

Tgt Ion:105 Resp: 4542859

Ion Ratio Lower Upper

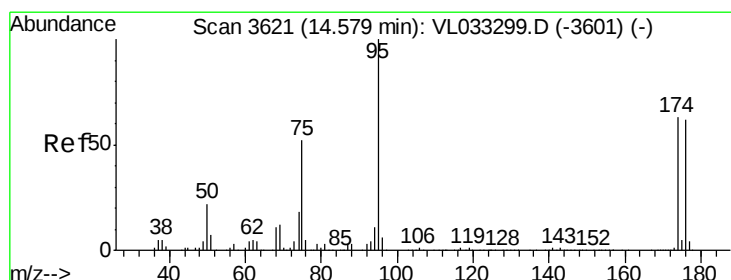
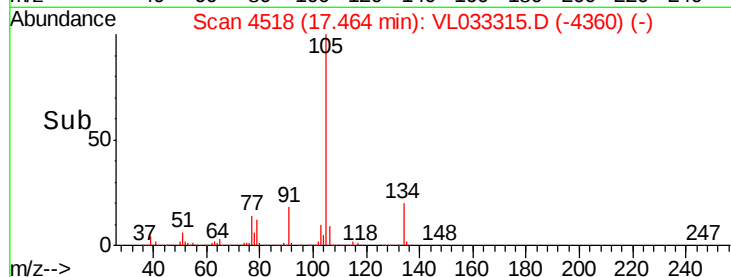
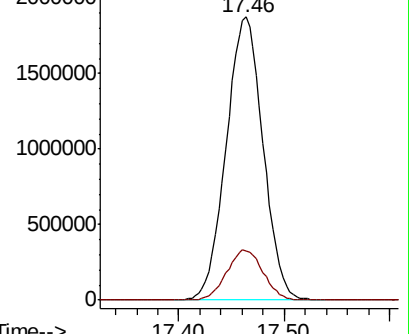
105 100

134 17.7 14.2 21.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 8.166 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

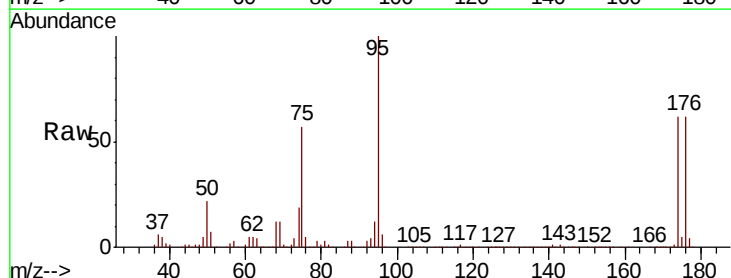
Tgt Ion: 95 Resp: 1624900

Ion Ratio Lower Upper

95 100

174 64.3 51.9 77.9

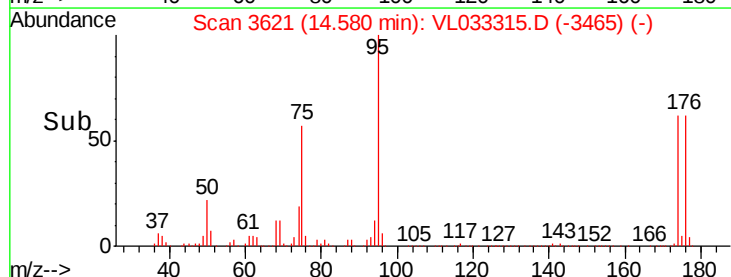
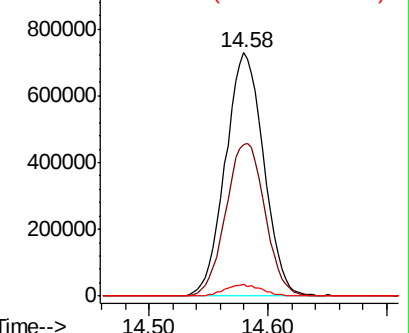
175 4.7 3.9 5.9

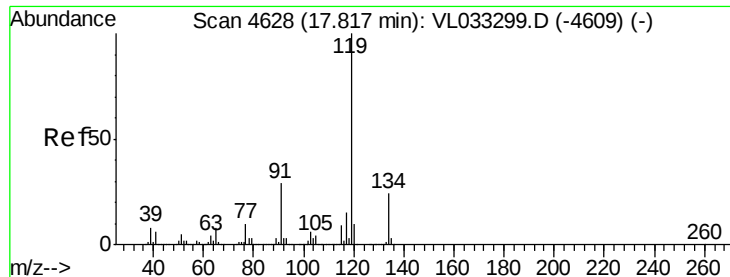


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

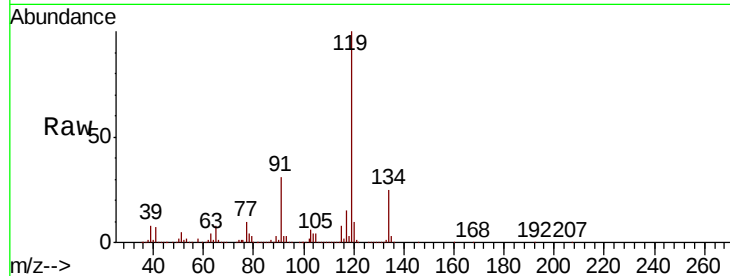




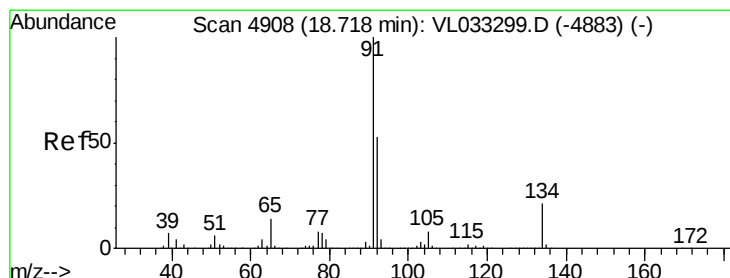
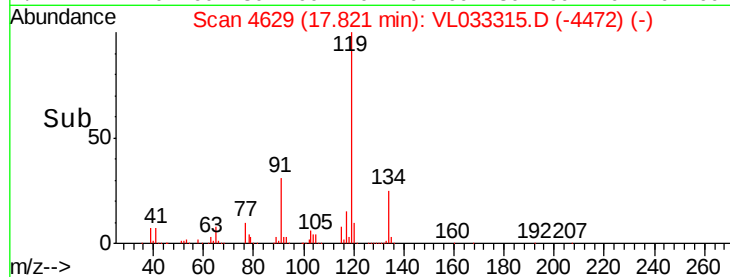
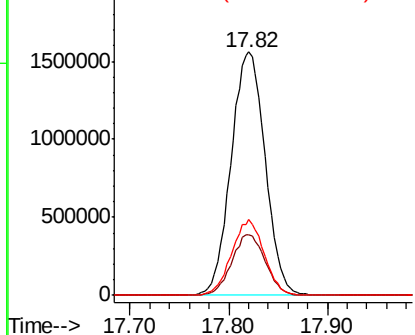
#69
p-Isopropyltoluene
Concen: 9.045 ppbv
RT: 17.82 min Scan# 4629
Delta R.T. 0.00 min
Lab File: VL033315.D
Acq: 14 Mar 2019 14:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 119 Resp: 3747817
Ion Ratio Lower Upper
119 100
134 24.7 19.8 29.6
91 29.7 23.8 35.8

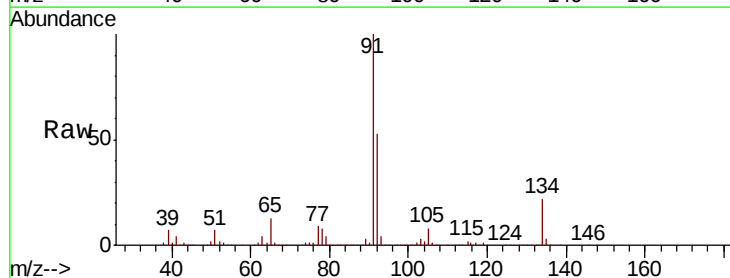


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

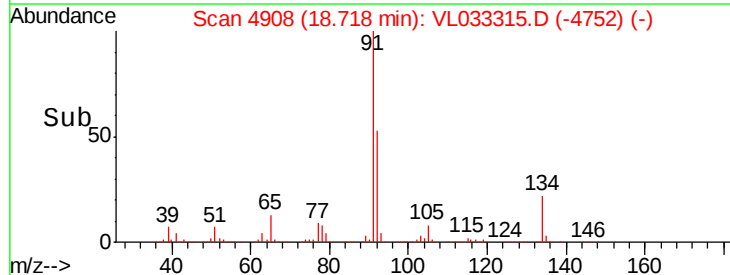
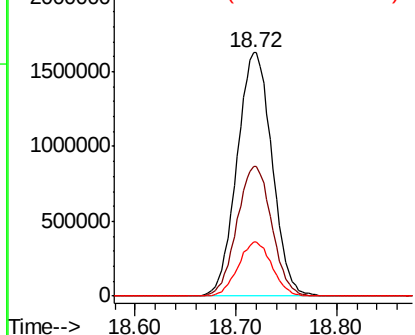


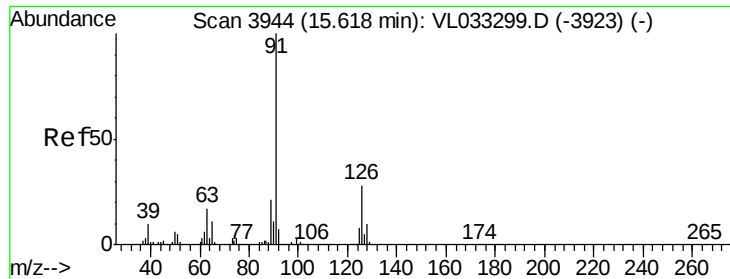
#70
n-Butylbenzene
Concen: 9.013 ppbv
RT: 18.72 min Scan# 4908
Delta R.T. 0.00 min
Lab File: VL033315.D
Acq: 14 Mar 2019 14:16

Tgt Ion: 91 Resp: 3904801
Ion Ratio Lower Upper
91 100
92 53.1 42.6 63.8
134 21.6 17.4 26.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0
Ion 134.20 (133.90 to 134.90): V

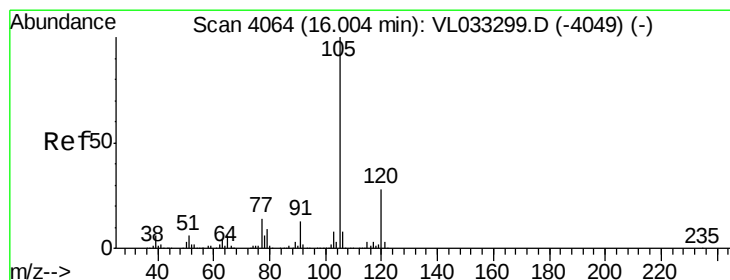
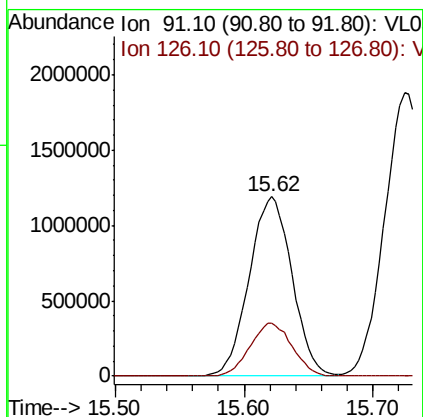
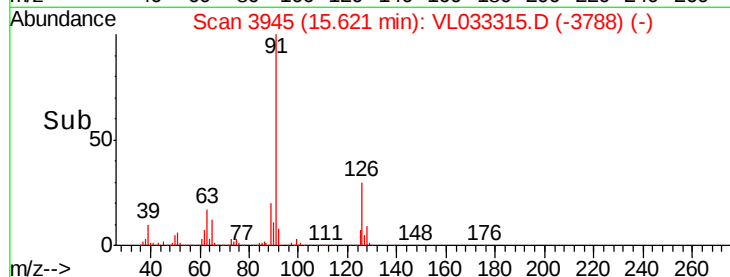
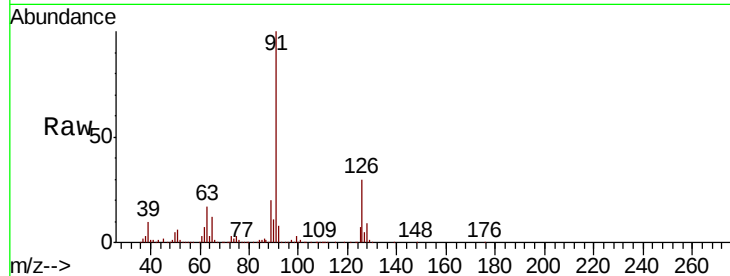




#71
 2-Chlorotoluene
 Concen: 8.623 ppbv
 RT: 15.62 min Scan# 3945
 Delta R.T. 0.00 min
 Lab File: VL033315.D
 Acq: 14 Mar 2019 14:16

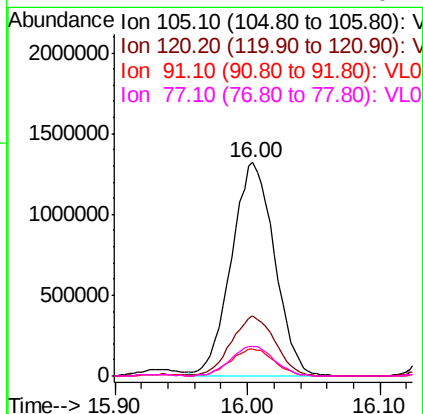
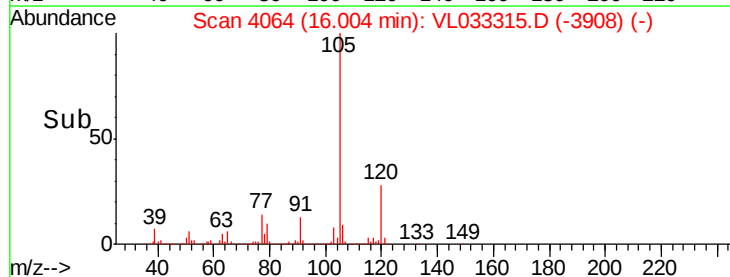
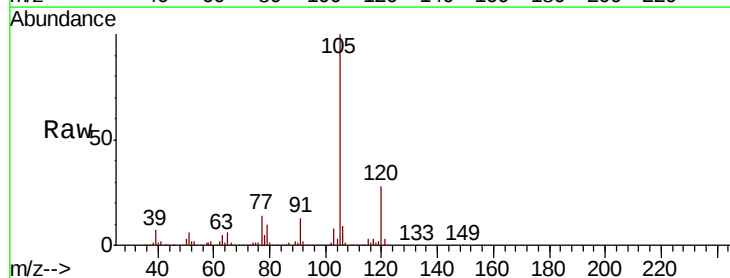
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

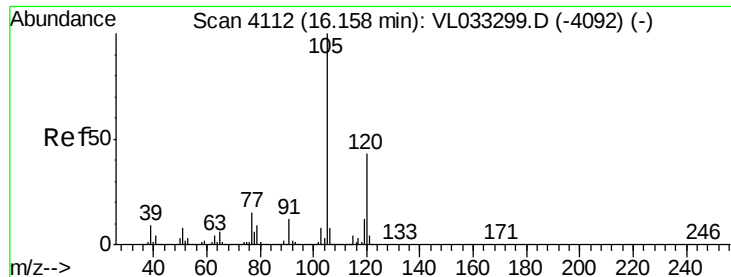
Tgt Ion: 91 Resp: 2756356
 Ion Ratio Lower Upper
 91 100
 126 29.4 11.8 47.0



#72
 4-Ethyltoluene
 Concen: 9.171 ppbv
 RT: 16.00 min Scan# 4064
 Delta R.T. 0.00 min
 Lab File: VL033315.D
 Acq: 14 Mar 2019 14:16

Tgt Ion: 105 Resp: 2980416
 Ion Ratio Lower Upper
 105 100
 120 28.4 22.7 34.1
 91 13.0 10.3 15.5
 77 14.1 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 9.364 ppbv

RT: 16.16 min Scan# 4114

Delta R.T. 0.01 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

Instrument :

MSVOA_L

ClientSampleId :

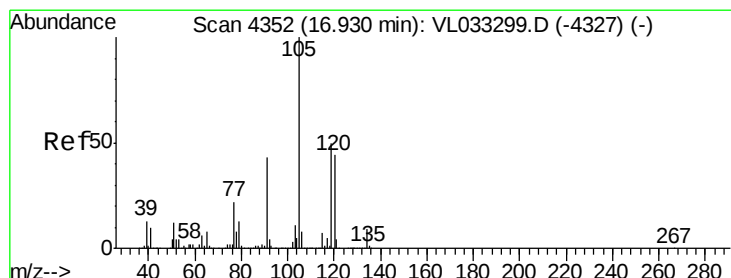
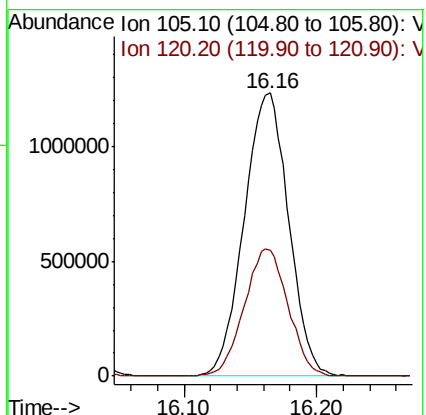
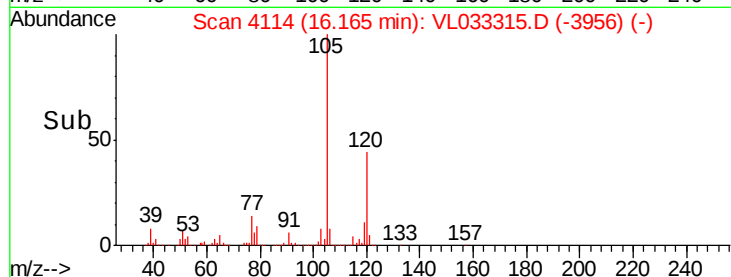
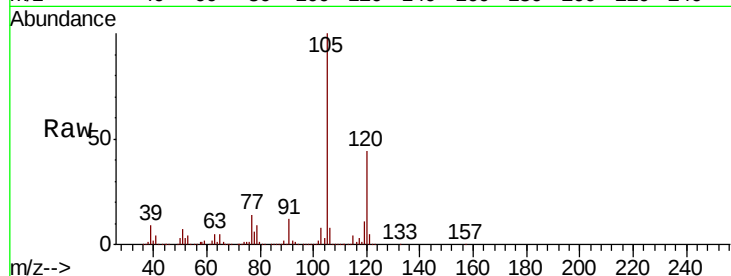
VSTDCCC010EC

Tgt Ion:105 Resp: 2861103

Ion Ratio Lower Upper

105 100

120 44.5 34.6 52.0



#74

1,2,4-Trimethylbenzene

Concen: 9.314 ppbv

RT: 16.93 min Scan# 4353

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

Tgt Ion:105 Resp: 2904269

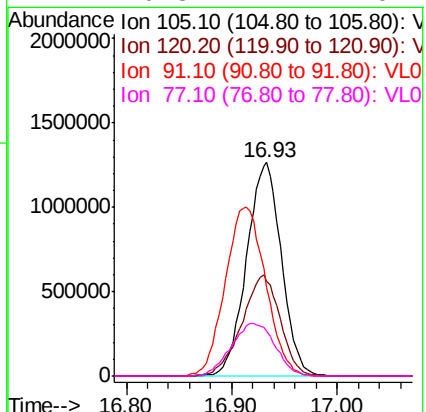
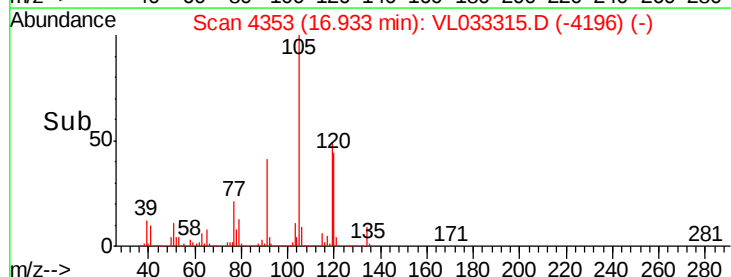
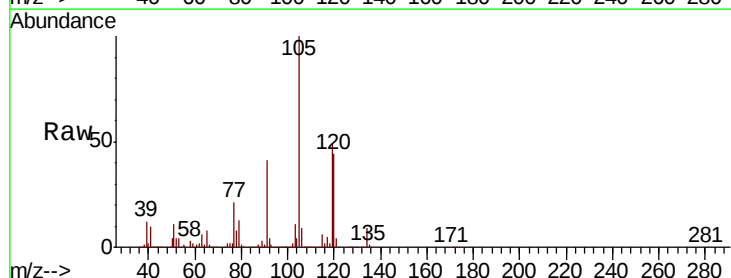
Ion Ratio Lower Upper

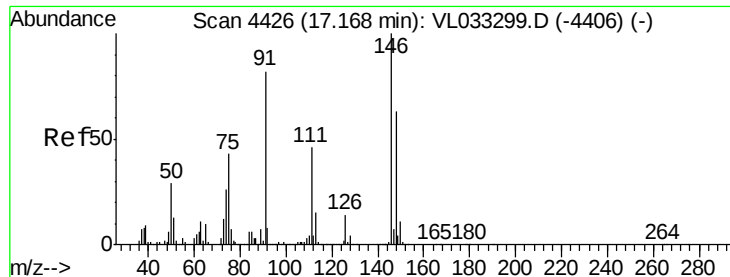
105 100

120 44.1 35.2 52.8

91 41.4 34.0 51.0

77 20.8 17.4 26.2

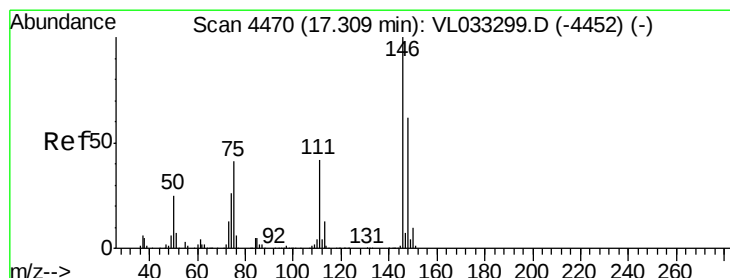
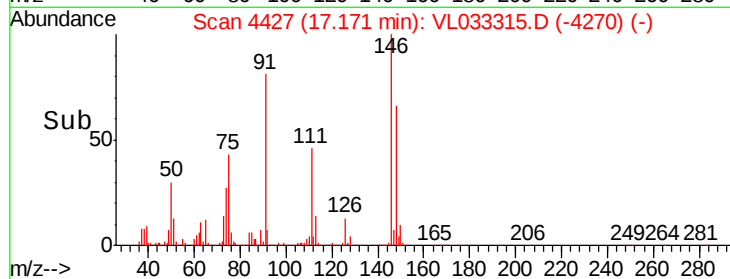
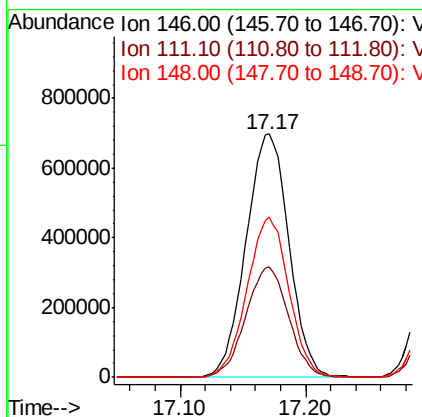
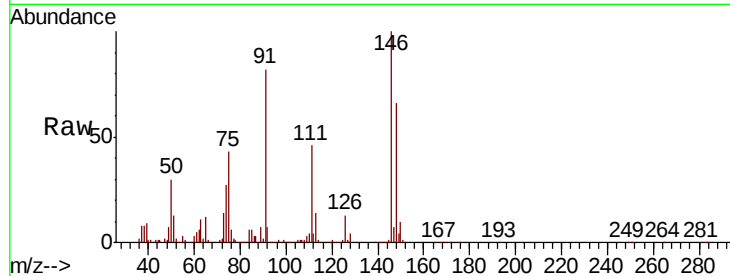




#75
 1,3-Dichlorobenzene
 Concen: 8.484 ppbv
 RT: 17.17 min Scan# 4427
 Delta R.T. 0.00 min
 Lab File: VL033315.D
 Acq: 14 Mar 2019 14:16

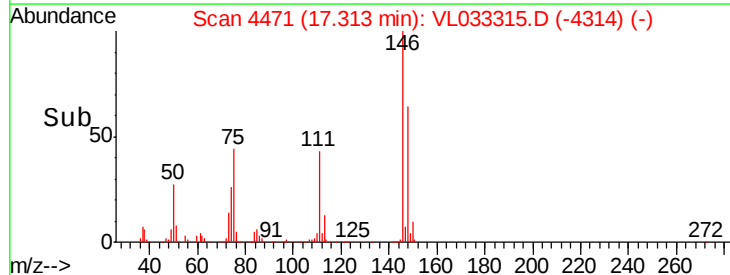
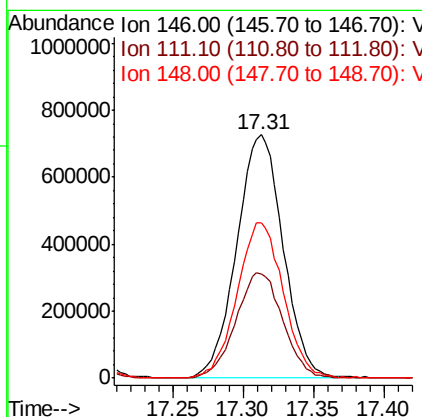
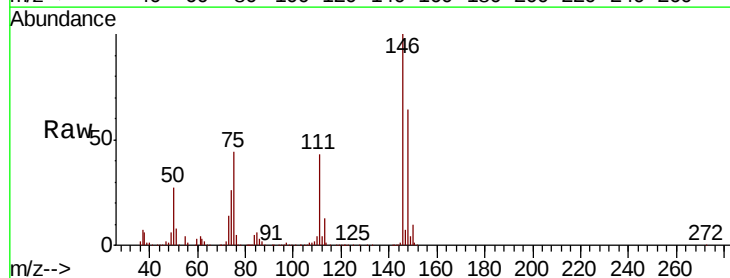
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

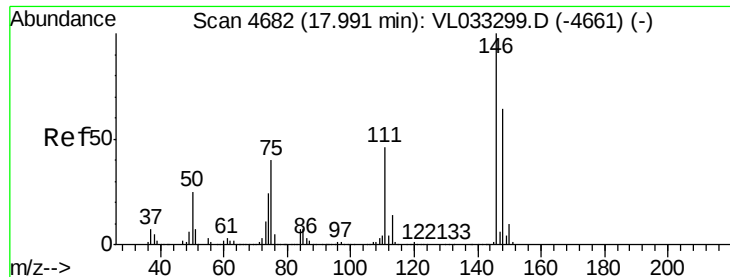
Tgt Ion:146 Resp: 1655795
 Ion Ratio Lower Upper
 146 100
 111 45.3 22.9 68.7
 148 64.3 32.4 97.0



#76
 1,4-Dichlorobenzene
 Concen: 8.661 ppbv
 RT: 17.31 min Scan# 4471
 Delta R.T. 0.00 min
 Lab File: VL033315.D
 Acq: 14 Mar 2019 14:16

Tgt Ion:146 Resp: 1650706
 Ion Ratio Lower Upper
 146 100
 111 44.3 21.9 65.5
 148 64.8 31.8 95.4





#77

1,2-Dichlorobenzene

Concen: 8.537 ppbv

RT: 17.99 min Scan# 4683

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

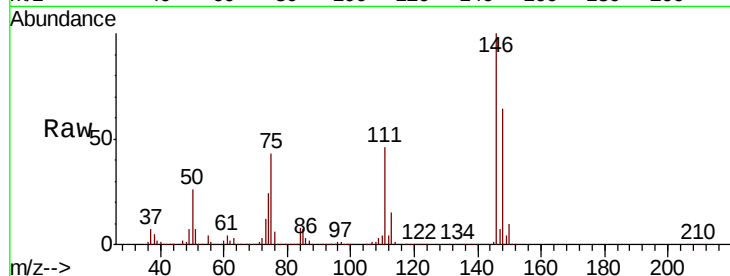
Tgt Ion:146 Resp: 1622287

Ion Ratio Lower Upper

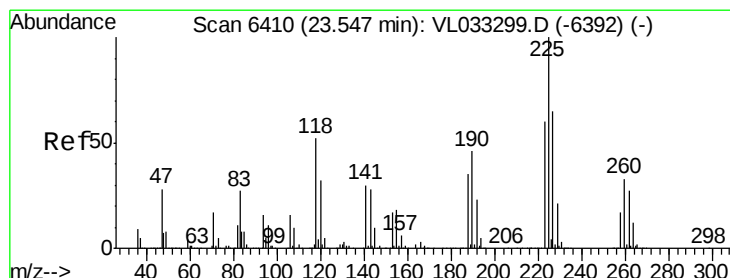
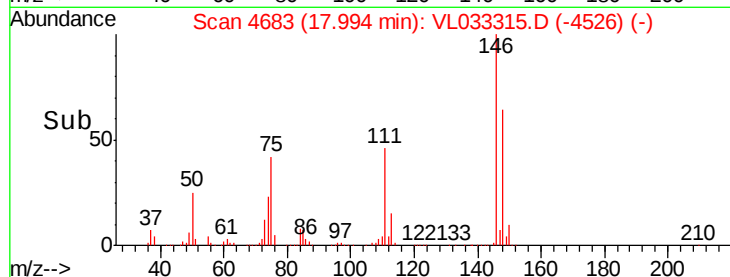
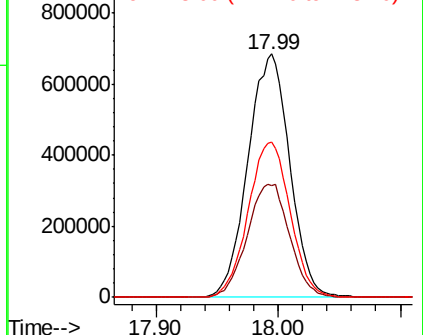
146 100

111 47.2 23.2 69.6

148 64.1 32.0 96.0



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



#78

Hexachloro-1,3-Butadiene

Concen: 6.677 ppbv

RT: 23.55 min Scan# 6411

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

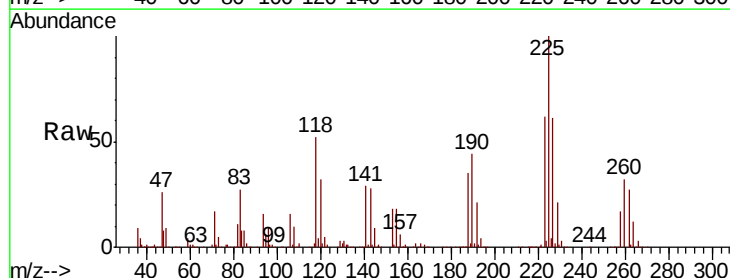
Tgt Ion:225 Resp: 935753

Ion Ratio Lower Upper

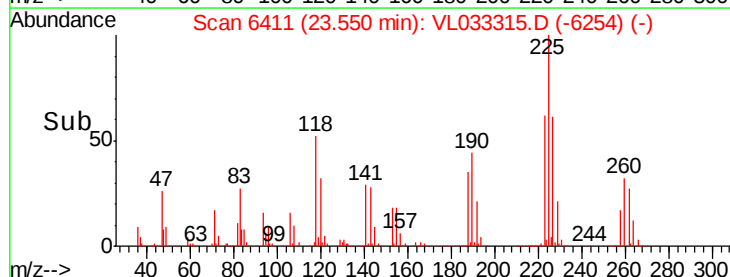
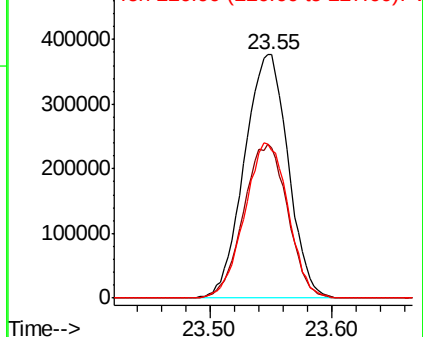
225 100

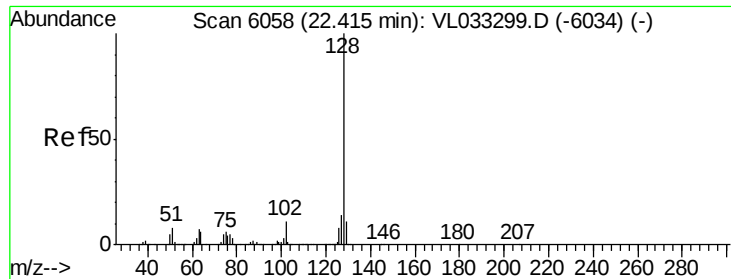
223 63.6 50.3 75.5

227 63.3 51.2 76.8



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: 11.487 ppbv

RT: 22.42 min Scan# 6058

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

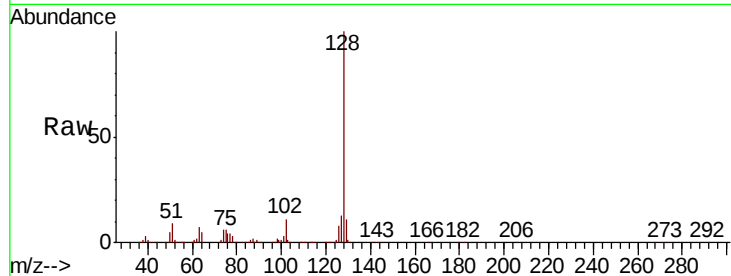
Tgt Ion:128 Resp: 2942608

Ion Ratio Lower Upper

128 100

127 12.8 10.8 16.2

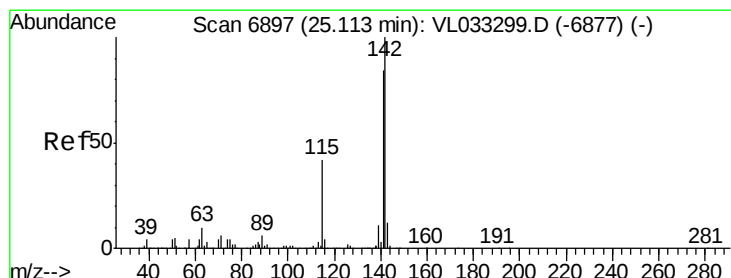
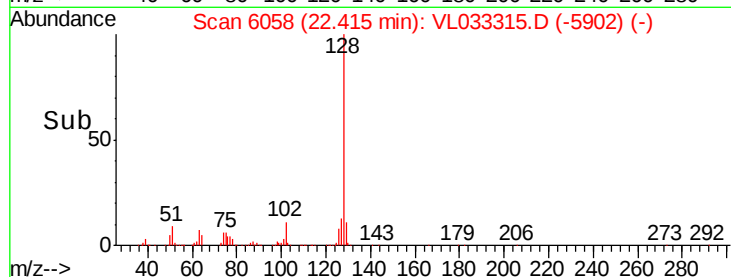
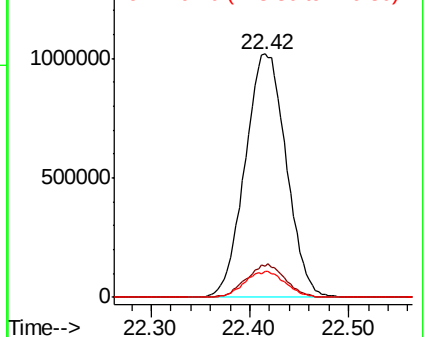
129 10.5 8.9 13.3



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: 16.167 ppbv

RT: 25.11 min Scan# 6897

Delta R.T. 0.00 min

Lab File: VL033315.D

Acq: 14 Mar 2019 14:16

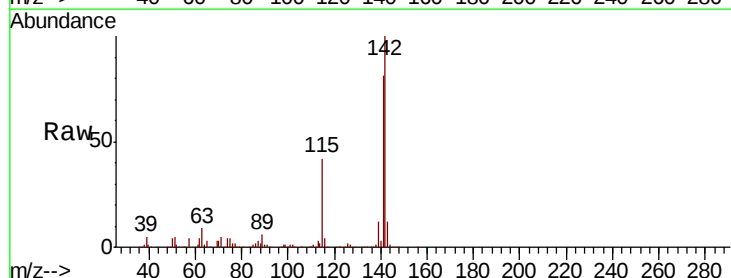
Tgt Ion:142 Resp: 1159950

Ion Ratio Lower Upper

142 100

141 84.0 67.2 100.8

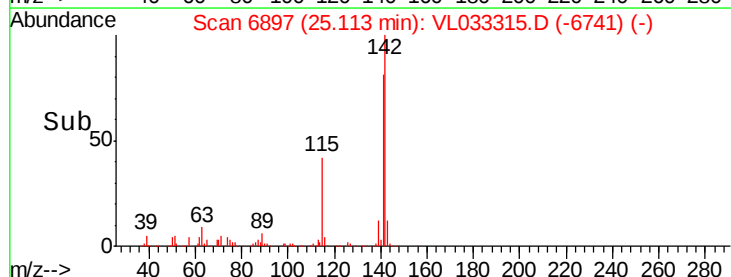
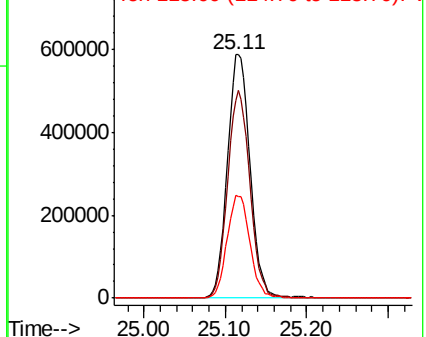
115 42.5 33.6 50.4

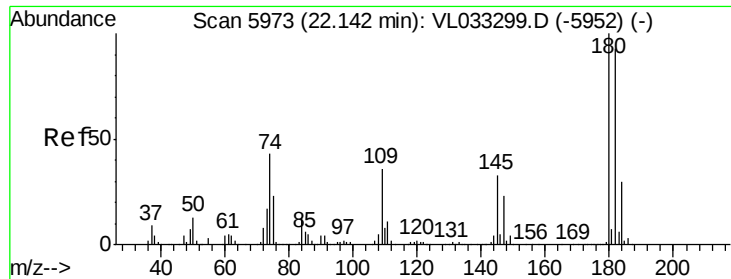


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

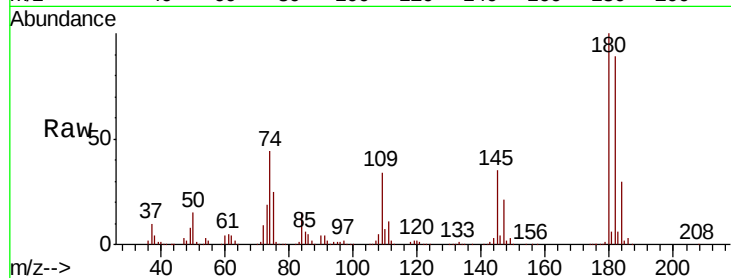




#81
 1,2,4-Trichlorobenzene
 Concen: 10.039 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. -0.00 min
 Lab File: VL033315.D
 Acq: 14 Mar 2019 14:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion:180 Resp: 1462424
 Ion Ratio Lower Upper
 180 100
 182 95.0 76.4 114.6
 184 30.1 24.6 36.8



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

