

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120219\
 Data File : VL034439.D
 Acq On : 2 Dec 2019 23:18
 Operator : SY/AP
 Sample : K6097-05
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1A

Quant Time: Dec 03 02:53:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	757091	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1509037	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1441790	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.48	95	1242527	10.24	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.40%

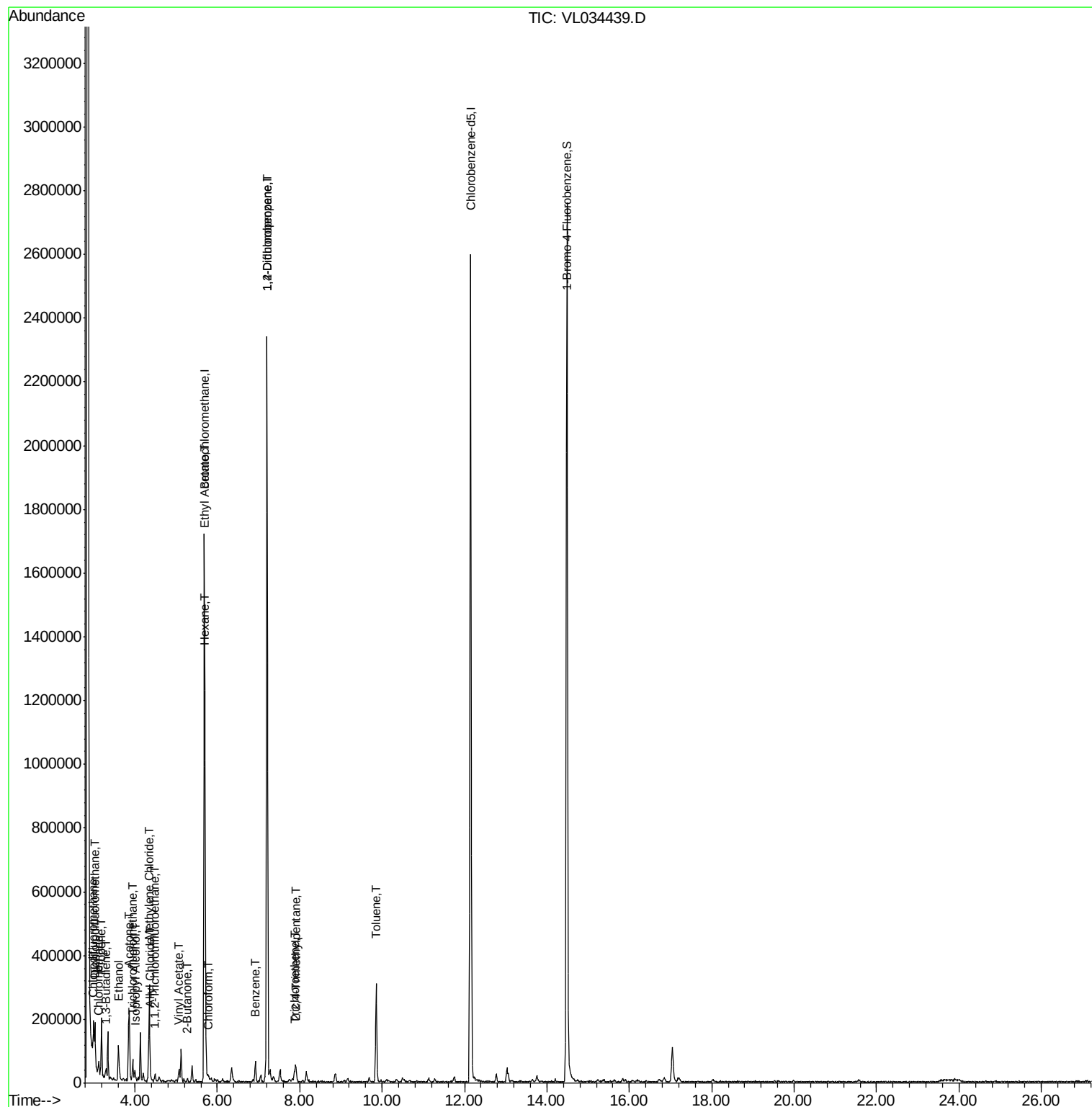
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	89339	0.652	ppbv	93
3) Chlorodifluoromethane	2.97	51	41570	0.440	ppbv	93
4) Chloromethane	3.12	50	26636	0.478	ppbv #	83
9) Propene	3.19	41	44890	1.070	ppbv	99
11) Trichlorofluoromethane	3.94	101	36796	0.270	ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.48	101	4264	0.047	ppbv #	25
13) Ethanol	3.60	45	104688	8.961	ppbv	86
15) Acetone	3.85	43	220457	2.034	ppbv	94
16) 1,3-Butadiene	3.30	39	2450	0.052	ppbv #	9
19) Isopropyl Alcohol	3.99	45	18056	0.260	ppbv #	1
20) Methylene Chloride	4.35	84	97175	2.528	ppbv	97
21) Allyl Chloride	4.37	41	4314	0.066	ppbv #	37
23) Vinyl Acetate	5.08	43	9014	0.064	ppbv #	6
25) Ethyl Acetate	5.70	43	72939	0.377	ppbv #	81
26) Hexane	5.71	57	94370	1.135	ppbv #	40
29) Chloroform	5.77	83	4422	0.033	ppbv	99
34) 2-Butanone	5.27	43	5665	0.046	ppbv #	46
36) Benzene	6.92	78	25589	0.170	ppbv	99
38) Trichloroethene	7.88	130	4042	0.065	ppbv #	30
39) 1,2-Dichloropropane	7.21	63	446210	7.678	ppbv #	24
44) 2,2,4-Trimethylpentane	7.91	57	13610	0.049	ppbv #	1
53) Toluene	9.85	91	205208	1.198	ppbv	94

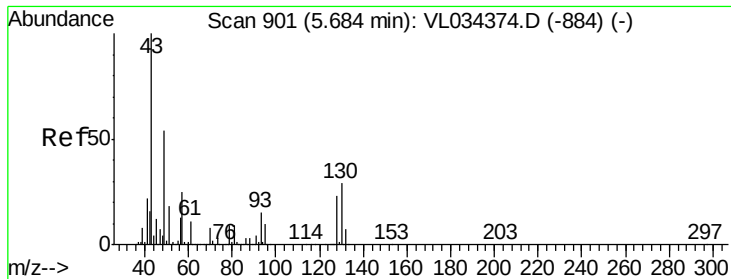
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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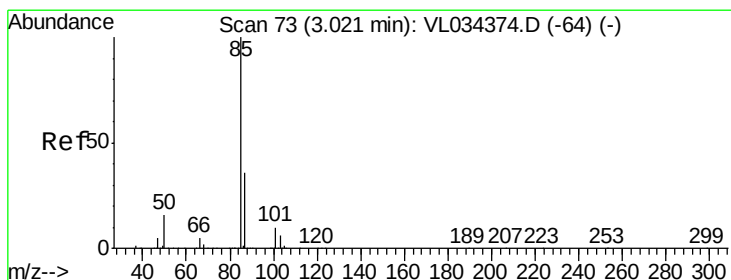
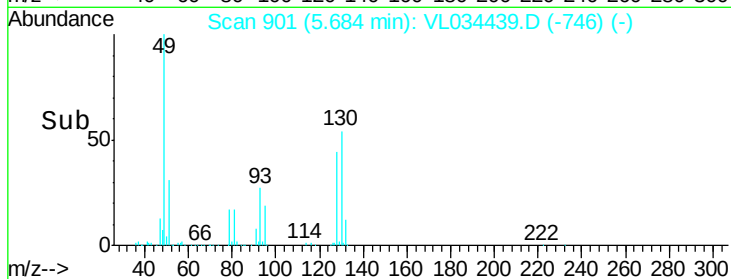
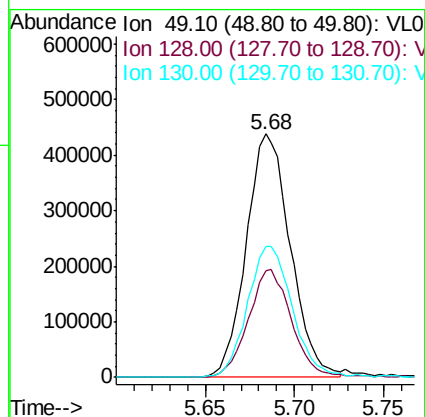
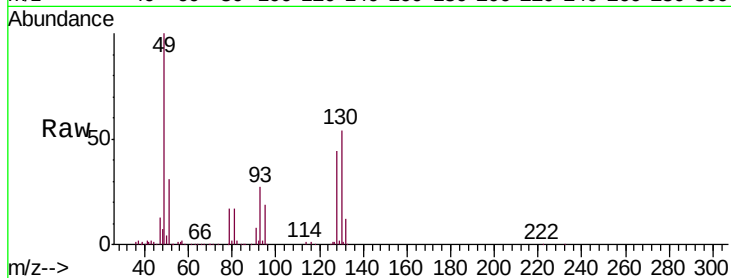




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.68 min Scan# 901
 Delta R.T. -0.00 min
 Lab File: VL034439.D
 Acq: 2 Dec 2019 23:18

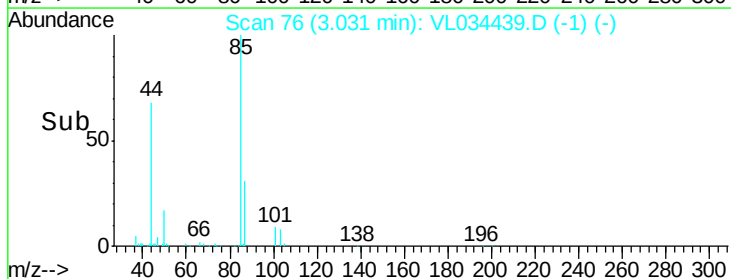
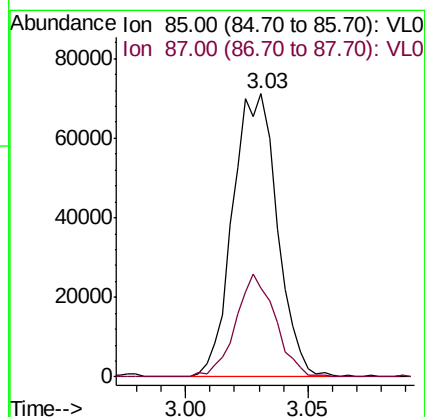
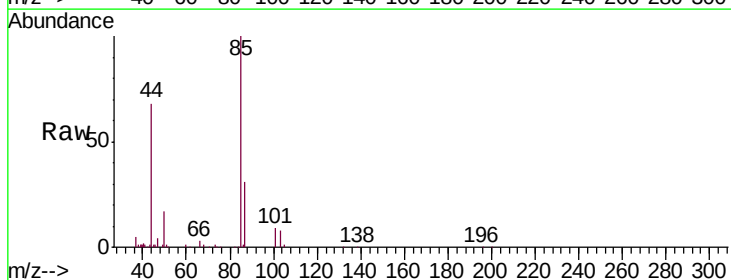
Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1A

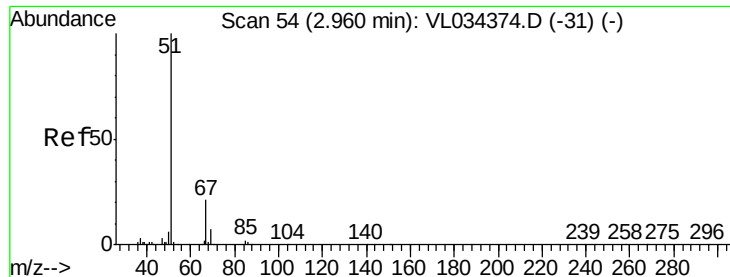
Tgt Ion: 49 Resp: 757091
 Ion Ratio Lower Upper
 49 100
 128 44.0 21.8 65.3
 130 55.6 28.0 84.0



#2
 Dichlorodifluoromethane
 Concen: 0.652 ppbv
 RT: 3.03 min Scan# 76
 Delta R.T. 0.01 min
 Lab File: VL034439.D
 Acq: 2 Dec 2019 23:18

Tgt Ion: 85 Resp: 89339
 Ion Ratio Lower Upper
 85 100
 87 31.6 28.5 42.7





#3

Chlorodifluoromethane

Concen: 0.440 ppbv

RT: 2.97 min Scan# 56

Delta R.T. 0.01 min

Lab File: VL034439.D

Acq: 2 Dec 2019 23:18

Instrument :

MSVOA_L

ClientSampleId :

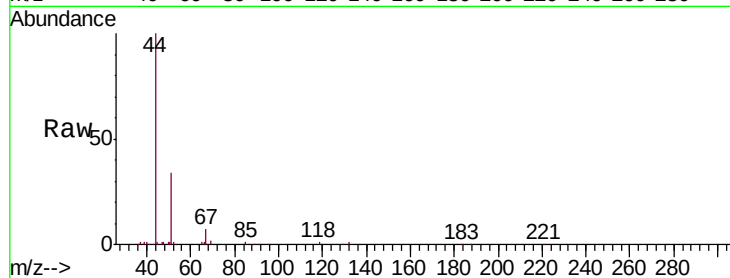
QA-1A

Tgt Ion: 51 Resp: 41570

Ion Ratio Lower Upper

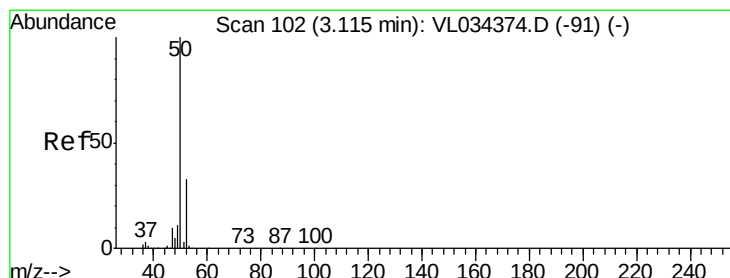
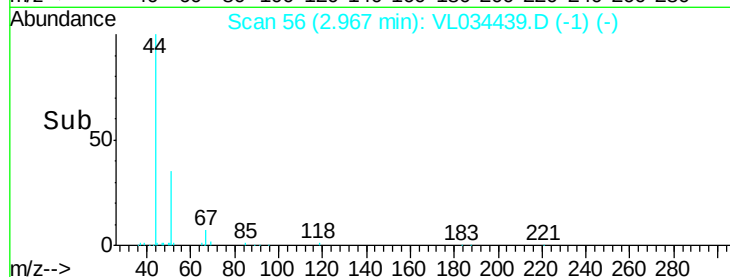
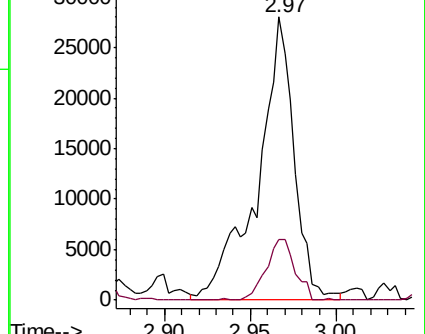
51 100

67 17.0 16.2 24.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.478 ppbv

RT: 3.12 min Scan# 105

Delta R.T. 0.01 min

Lab File: VL034439.D

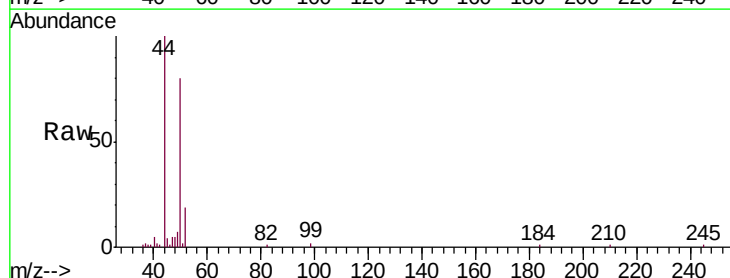
Acq: 2 Dec 2019 23:18

Tgt Ion: 50 Resp: 26636

Ion Ratio Lower Upper

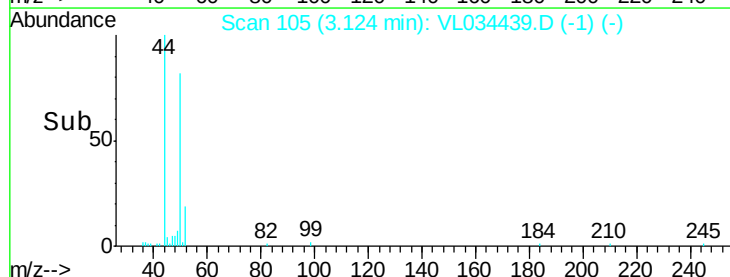
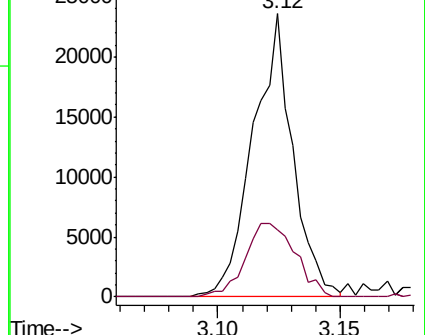
50 100

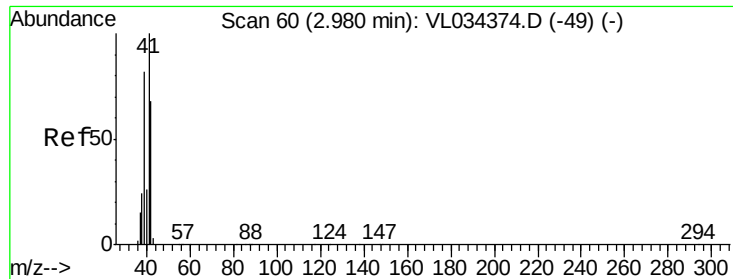
52 23.8 26.8 40.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.070 ppbv

RT: 3.19 min Scan# 124

Delta R.T. 0.21 min

Lab File: VL034439.D

Acq: 2 Dec 2019 23:18

Instrument :

MSVOA_L

ClientSampleId :

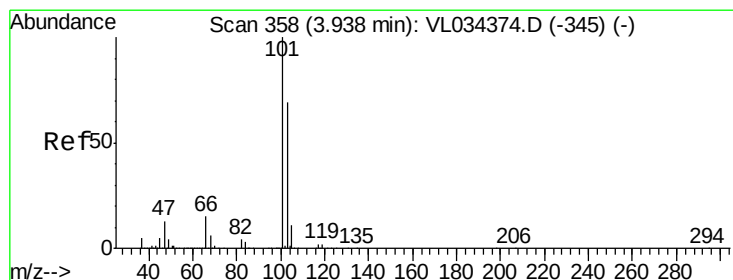
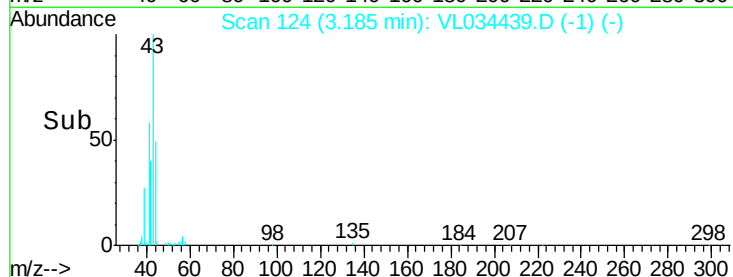
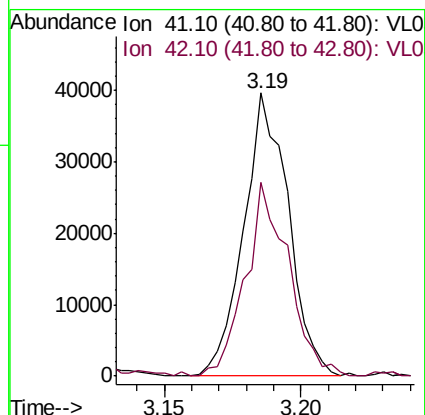
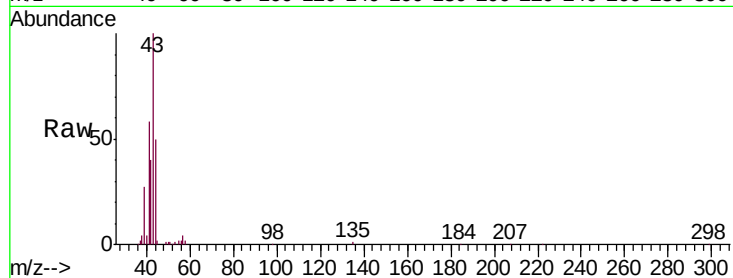
QA-1A

Tgt Ion: 41 Resp: 44890

Ion Ratio Lower Upper

41 100

42 67.3 54.6 82.0



#11

Trichlorofluoromethane

Concen: 0.270 ppbv

RT: 3.94 min Scan# 360

Delta R.T. 0.01 min

Lab File: VL034439.D

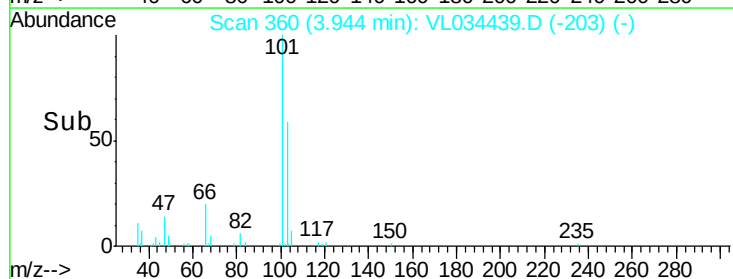
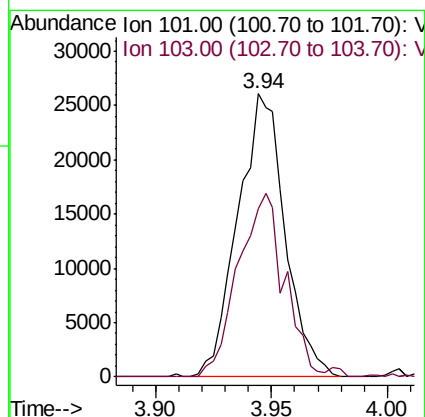
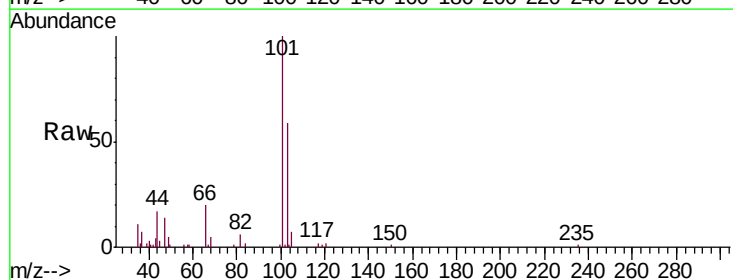
Acq: 2 Dec 2019 23:18

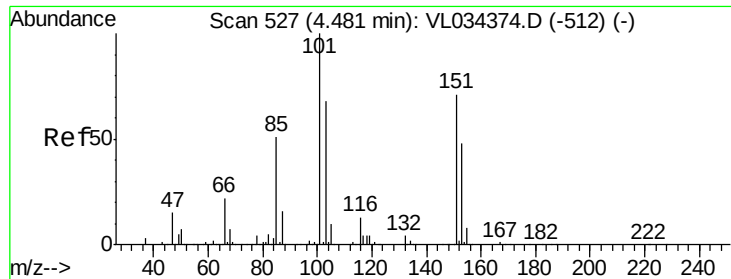
Tgt Ion: 101 Resp: 36796

Ion Ratio Lower Upper

101 100

103 59.3 55.4 83.0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.047 ppbv

RT: 4.48 min Scan# 528

Delta R.T. 0.00 min

Lab File: VL034439.D

Acq: 2 Dec 2019 23:18

Instrument :

MSVOA_L

ClientSampleId :

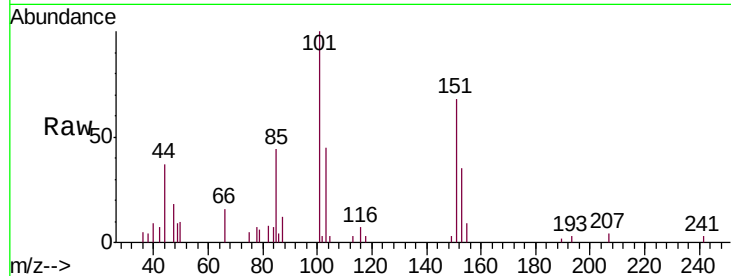
QA-1A

Tgt Ion:101 Resp: 4264

Ion Ratio Lower Upper

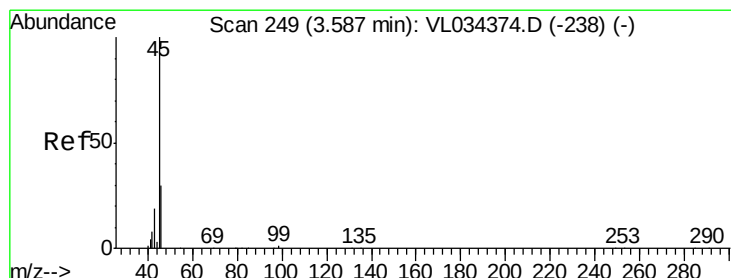
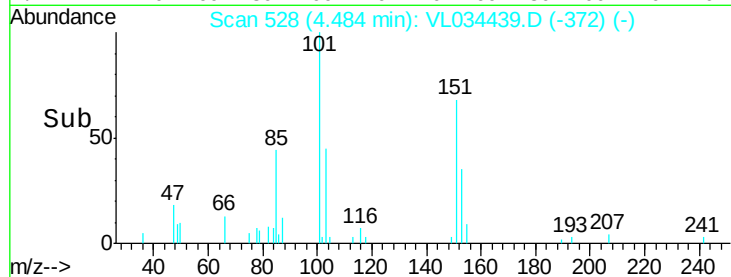
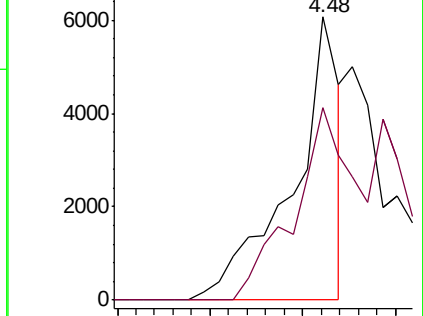
101 100

151 134.3 57.4 86.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 8.961 ppbv

RT: 3.60 min Scan# 254

Delta R.T. 0.02 min

Lab File: VL034439.D

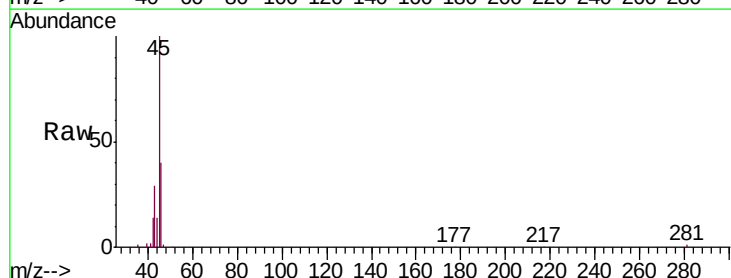
Acq: 2 Dec 2019 23:18

Tgt Ion: 45 Resp: 104688

Ion Ratio Lower Upper

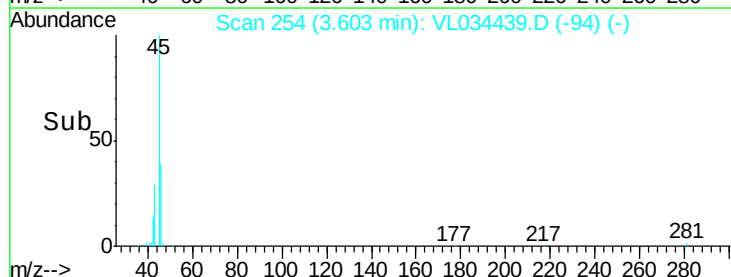
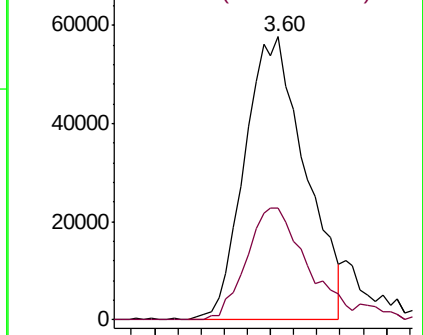
45 100

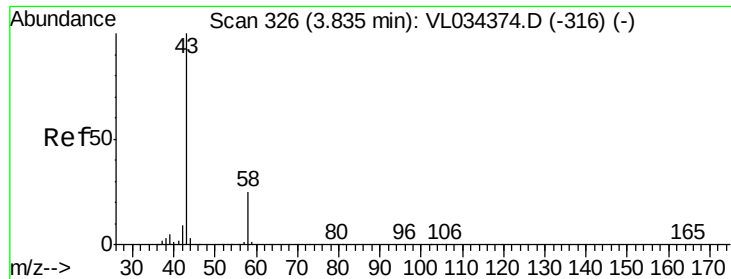
46 42.7 13.8 55.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 2.034 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.01 min

Lab File: VL034439.D

Acq: 2 Dec 2019 23:18

Instrument :

MSVOA_L

ClientSampleId :

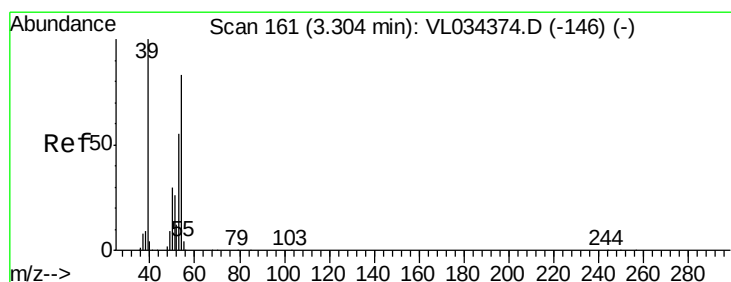
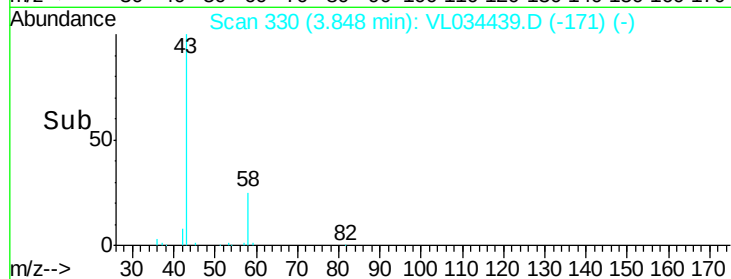
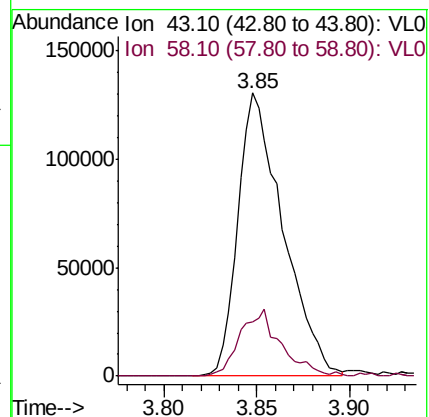
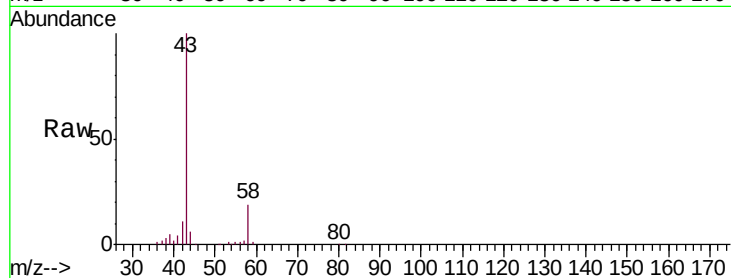
QA-1A

Tgt Ion: 43 Resp: 220457

Ion Ratio Lower Upper

43 100

58 22.4 20.2 30.4



#16

1,3-Butadiene

Concen: 0.052 ppbv

RT: 3.30 min Scan# 160

Delta R.T. -0.00 min

Lab File: VL034439.D

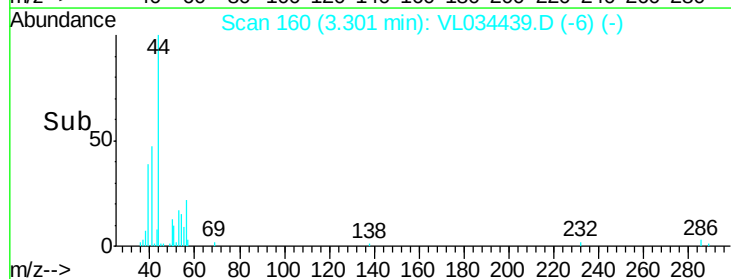
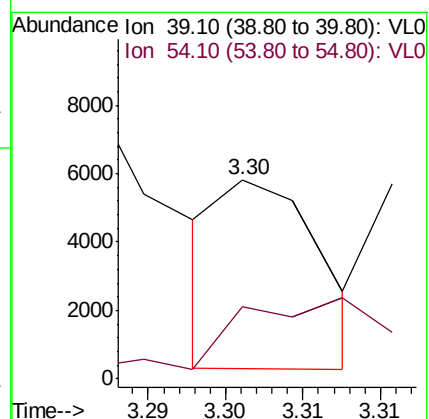
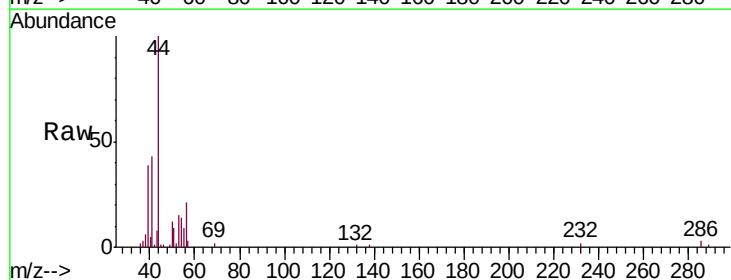
Acq: 2 Dec 2019 23:18

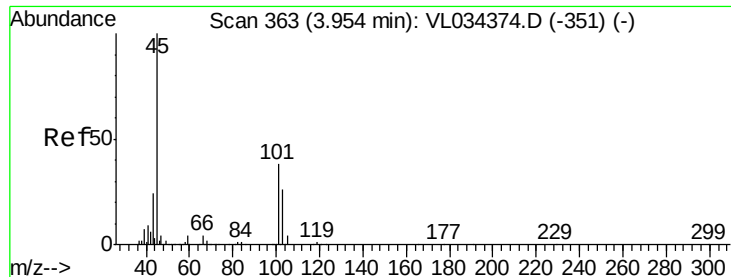
Tgt Ion: 39 Resp: 2450

Ion Ratio Lower Upper

39 100

54 0.0 64.7 97.1#





#19

Isopropyl Alcohol

Concen: 0.260 ppbv

RT: 3.99 min Scan# 374

Delta R.T. 0.04 min

Lab File: VL034439.D

Acq: 2 Dec 2019 23:18

Instrument :

MSVOA_L

ClientSampleId :

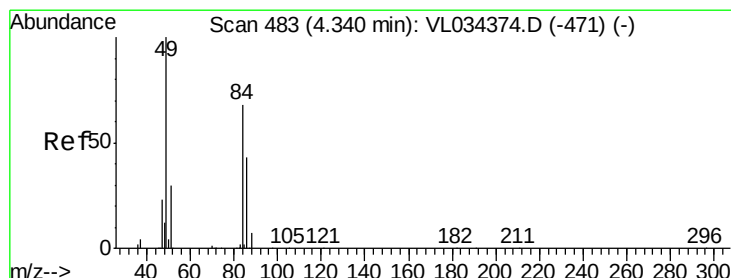
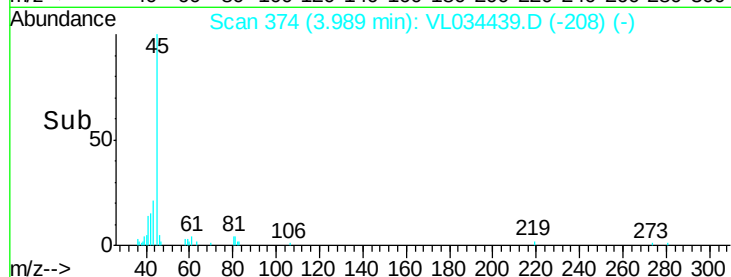
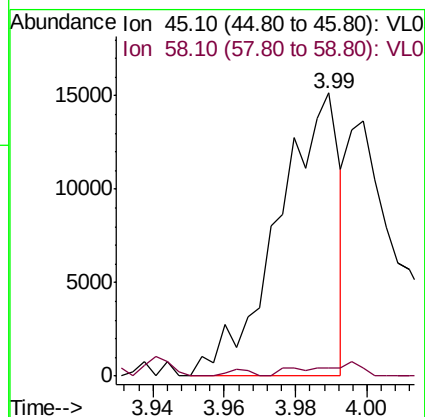
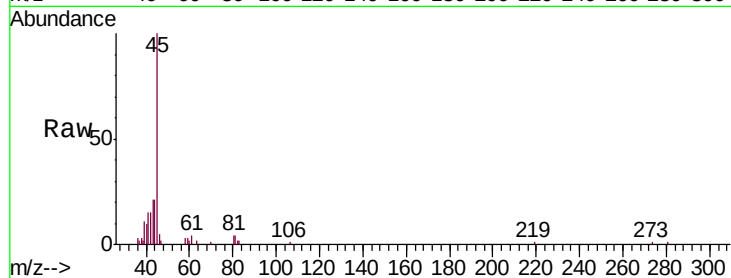
OA-1A

Tgt Ion: 45 Resp: 18056

Ion Ratio Lower Upper

45 100

58 262.6 1.3 1.9#



#20

Methylene Chloride

Concen: 2.528 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.01 min

Lab File: VL034439.D

Acq: 2 Dec 2019 23:18

Tgt Ion: 84 Resp: 97175

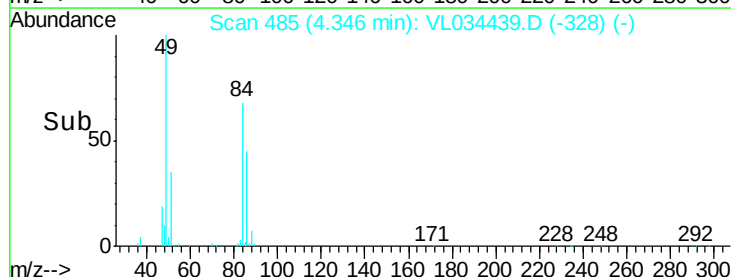
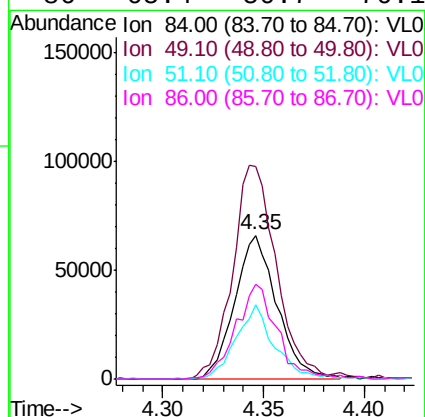
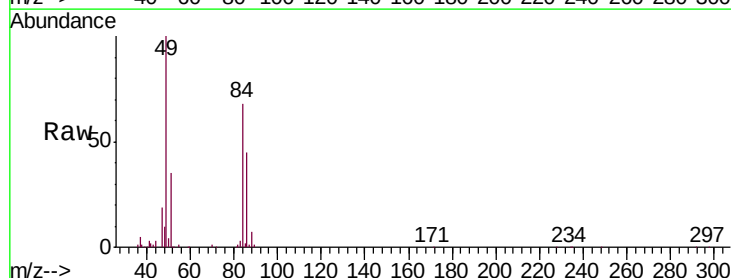
Ion Ratio Lower Upper

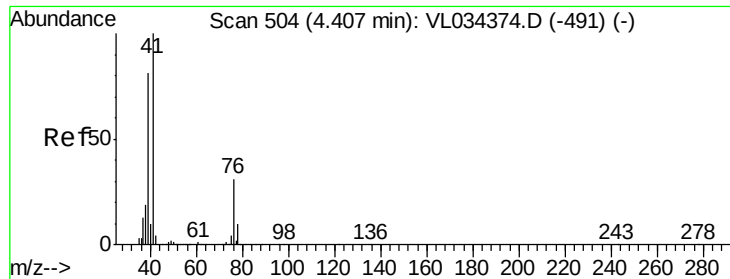
84 100

49 147.1 116.8 175.2

51 51.4 35.6 53.4

86 65.4 50.7 76.1





#21

Allyl Chloride

Concen: 0.066 ppbv

RT: 4.37 min Scan# 493

Delta R.T. -0.04 min

Lab File: VL034439.D

Acq: 2 Dec 2019 23:18

Instrument :

MSVOA_L

ClientSampleId :

OA-1A

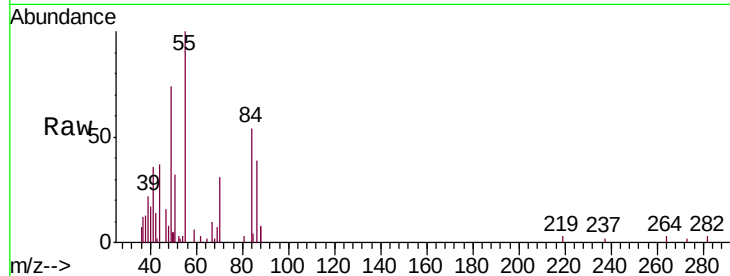
Tgt Ion: 41 Resp: 4314

Ion Ratio Lower Upper

41 100

76 0.0 24.2 36.2#

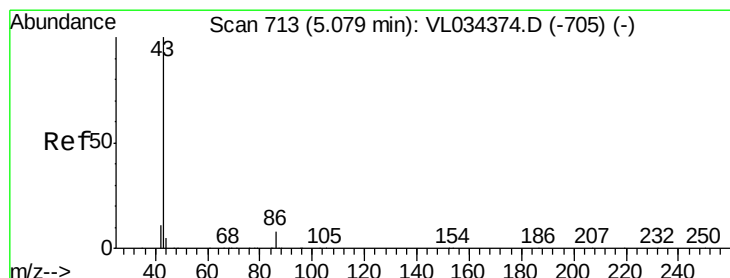
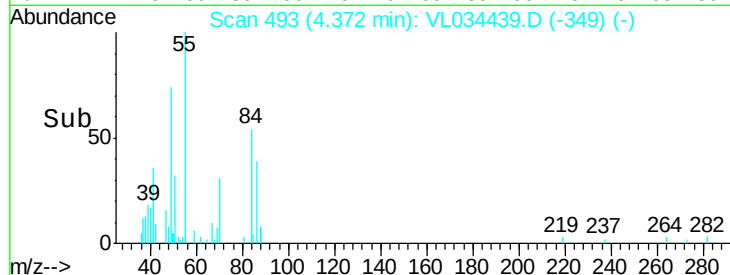
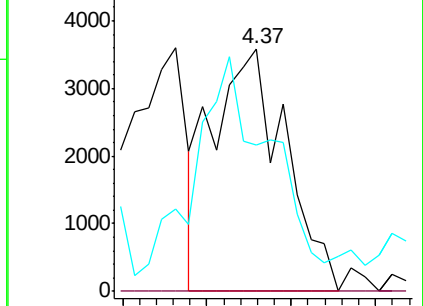
39 142.7 66.9 100.3#



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



#23

Vinyl Acetate

Concen: 0.064 ppbv

RT: 5.08 min Scan# 712

Delta R.T. -0.00 min

Lab File: VL034439.D

Acq: 2 Dec 2019 23:18

Tgt Ion: 43 Resp: 9014

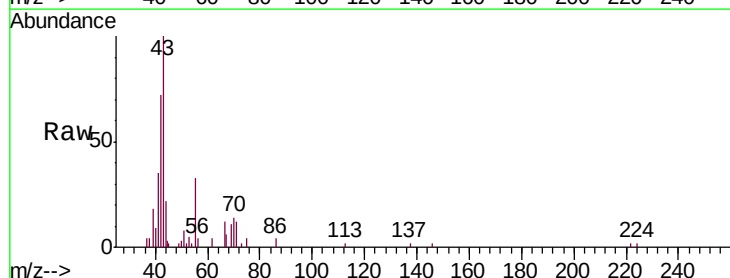
Ion Ratio Lower Upper

43 100

86 1.2 5.8 8.6#

42 74.4 8.9 13.3#

44 18.7 4.0 6.0#

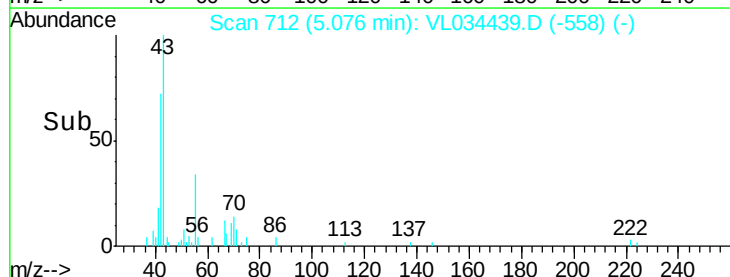
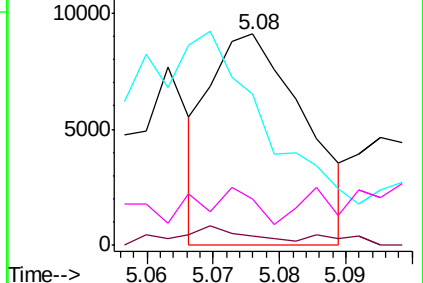


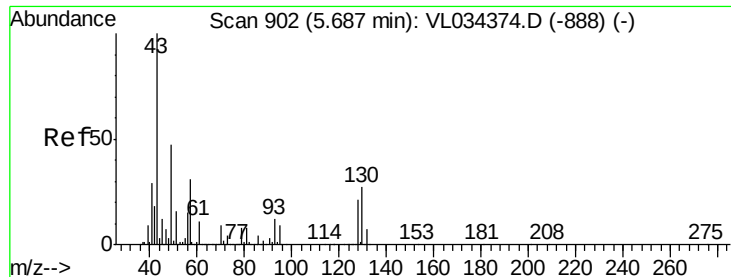
Abundance Ion 43.10 (42.80 to 43.80): VL0

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





#25

Ethyl Acetate

Concen: 0.377 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.01 min

Lab File: VL034439.D

Acq: 2 Dec 2019 23:18

Instrument :

MSVOA_L

ClientSampleId :

QA-1A

Tgt Ion: 43 Resp: 72939

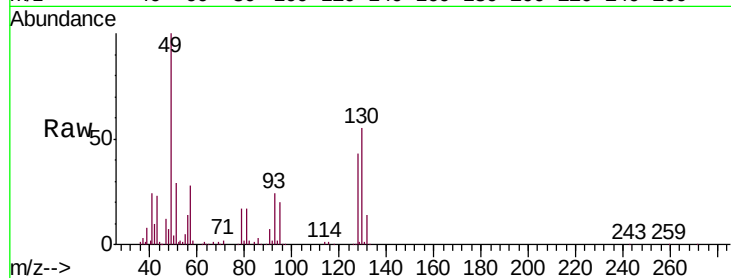
Ion Ratio Lower Upper

43 100

45 3.2 8.2 12.4#

61 1.4 7.5 11.3#

70 2.3 5.7 8.5#

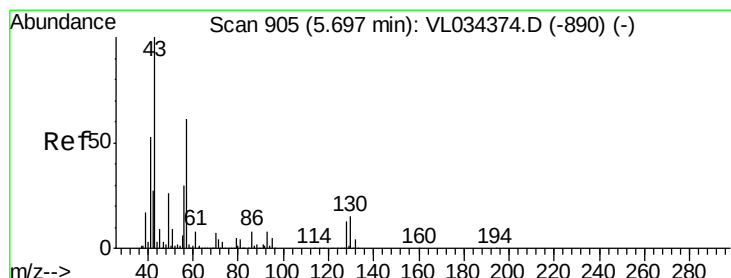
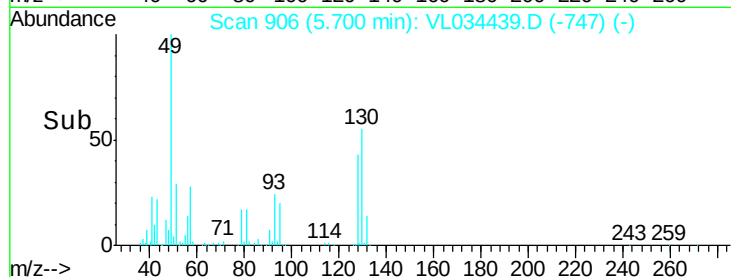
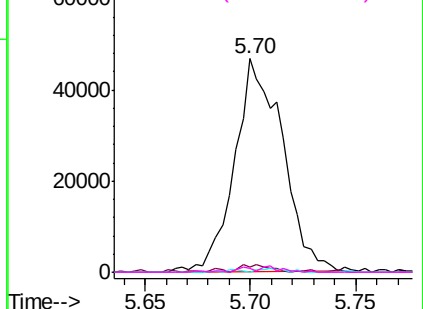


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.135 ppbv

RT: 5.71 min Scan# 908

Delta R.T. 0.01 min

Lab File: VL034439.D

Acq: 2 Dec 2019 23:18

Tgt Ion: 57 Resp: 94370

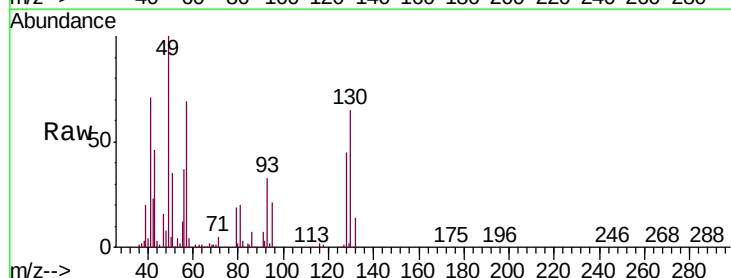
Ion Ratio Lower Upper

57 100

41 102.5 75.0 112.4

43 79.6 186.6 279.8#

56 55.9 41.5 62.3

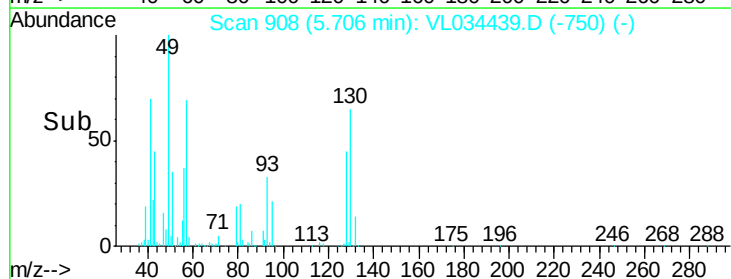
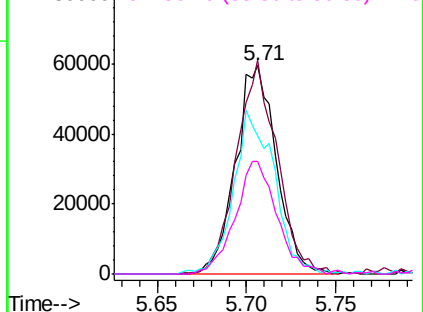


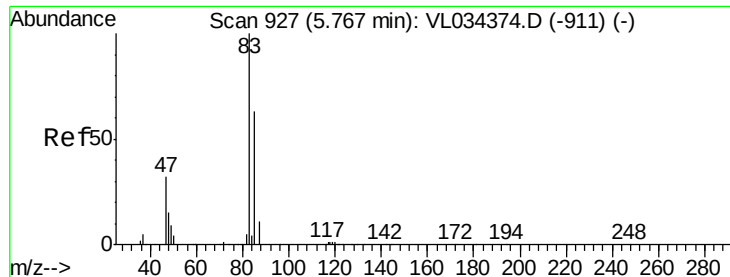
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#29

Chloroform

Concen: 0.033 ppbv

RT: 5.77 min Scan# 929

Delta R.T. 0.01 min

Lab File: VL034439.D

Acq: 2 Dec 2019 23:18

Instrument :

MSVOA_L

ClientSampleId :

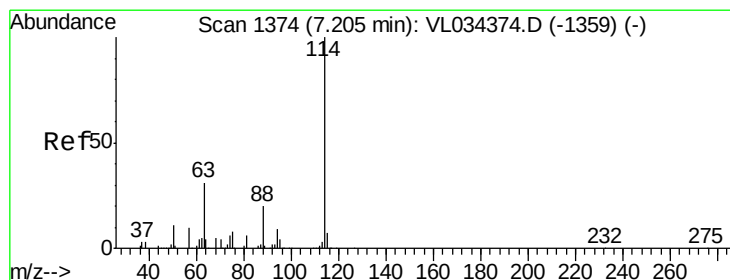
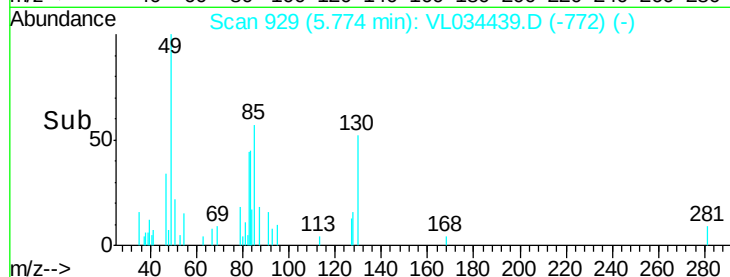
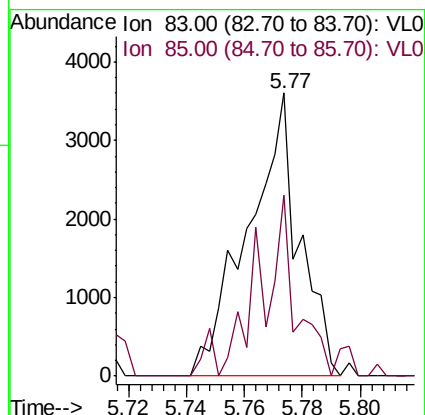
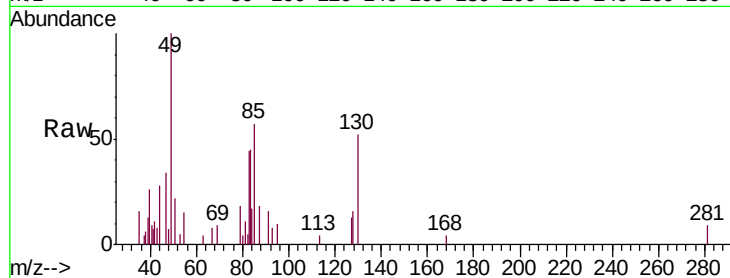
QA-1A

Tgt Ion: 83 Resp: 4422

Ion Ratio Lower Upper

83 100

85 64.1 50.4 75.6



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.21 min Scan# 1375

Delta R.T. 0.00 min

Lab File: VL034439.D

Acq: 2 Dec 2019 23:18

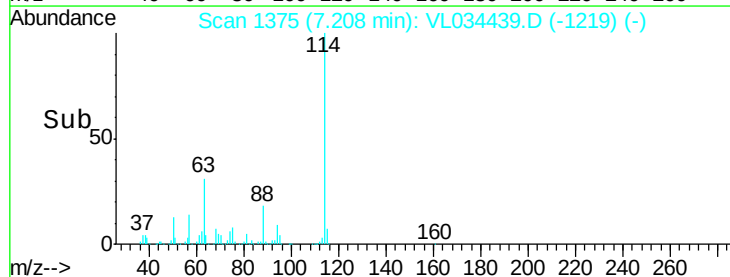
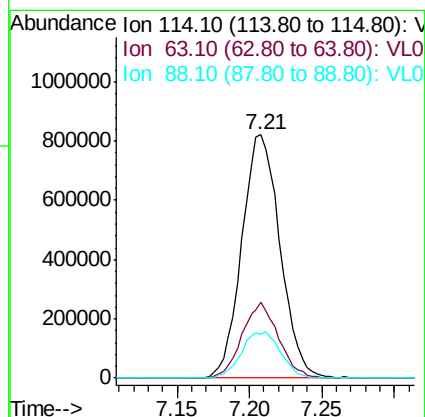
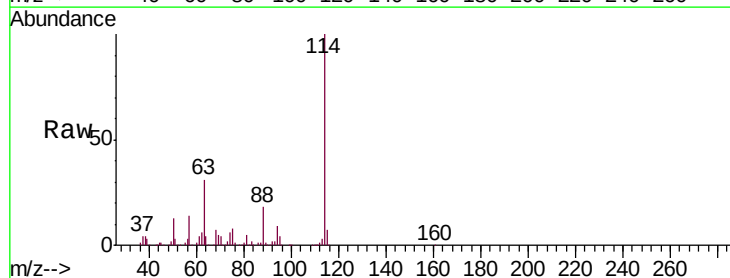
Tgt Ion: 114 Resp: 1509037

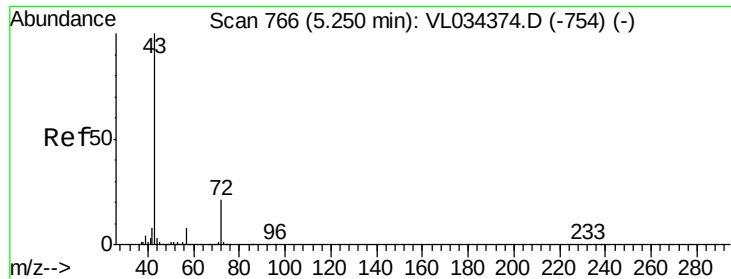
Ion Ratio Lower Upper

114 100

63 29.7 24.2 36.4

88 19.6 15.9 23.9

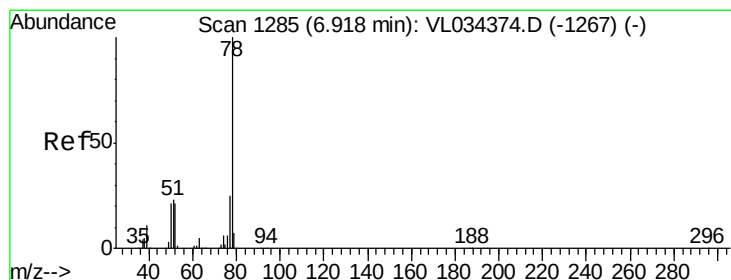
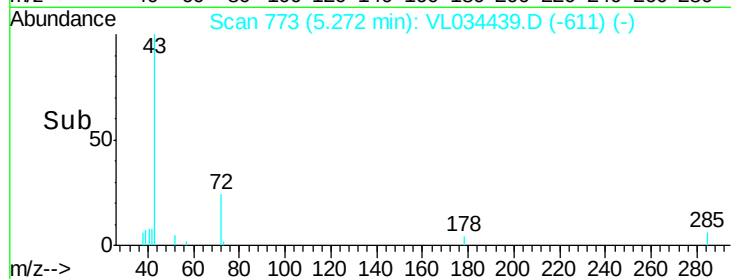
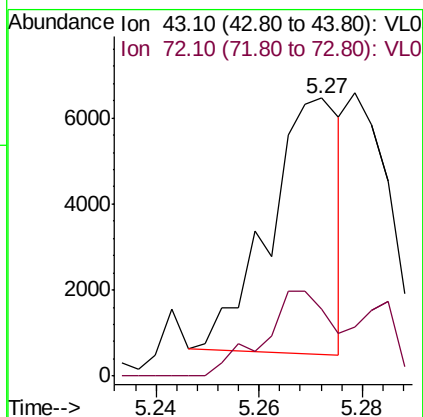
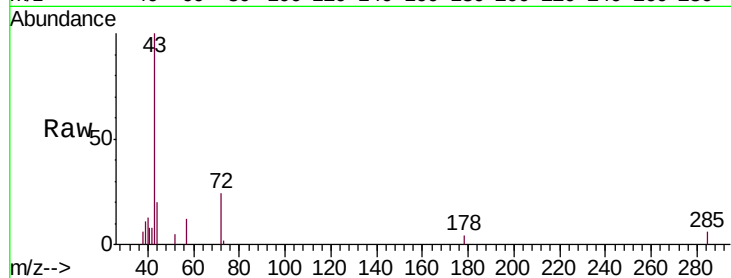




#34
 2-Butanone
 Concen: 0.046 ppbv
 RT: 5.27 min Scan# 773
 Delta R.T. 0.02 min
 Lab File: VL034439.D
 Acq: 2 Dec 2019 23:18

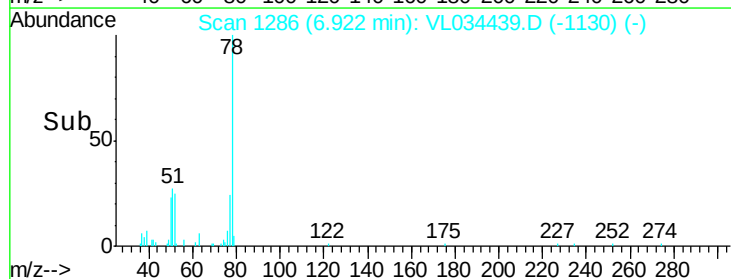
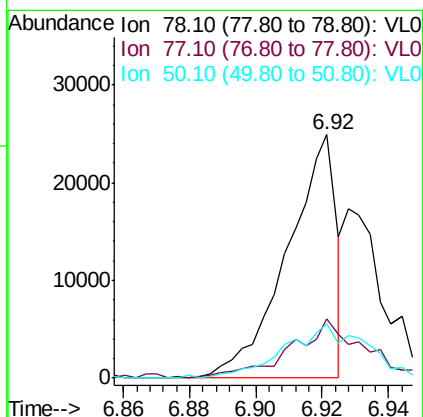
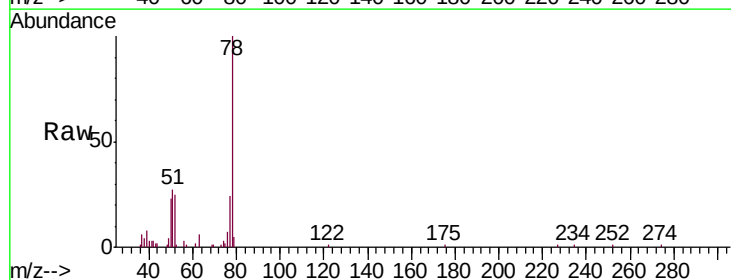
Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1A

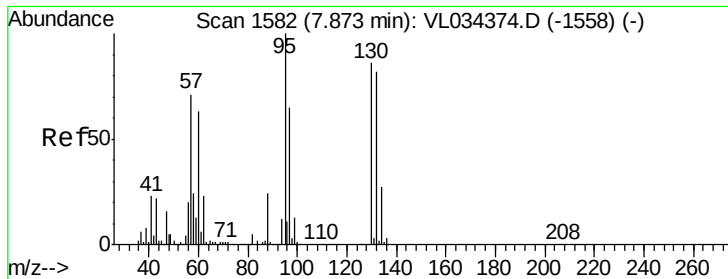
Tgt Ion: 43 Resp: 5665
 Ion Ratio Lower Upper
 43 100
 72 46.6 17.0 25.6#



#36
 Benzene
 Concen: 0.170 ppbv
 RT: 6.92 min Scan# 1286
 Delta R.T. 0.00 min
 Lab File: VL034439.D
 Acq: 2 Dec 2019 23:18

Tgt Ion: 78 Resp: 25589
 Ion Ratio Lower Upper
 78 100
 77 24.4 20.2 30.4
 50 21.4 17.1 25.7





#38

Trichloroethene

Concen: 0.065 ppbv

RT: 7.88 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VL034439.D

Acq: 2 Dec 2019 23:18

Instrument :

MSVOA_L

ClientSampleId :

OA-1A

Tgt Ion:130 Resp: 4042

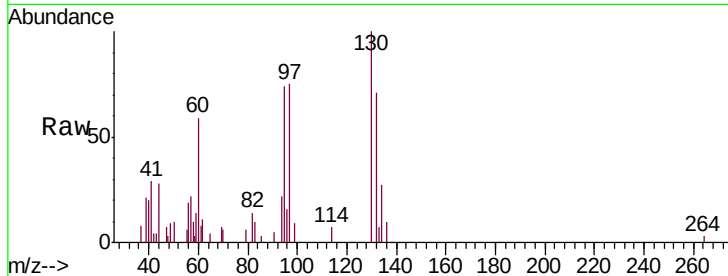
Ion Ratio Lower Upper

130 100

95 1.0 93.4 140.0#

132 44.9 76.4 114.6#

97 44.3 61.1 91.7#

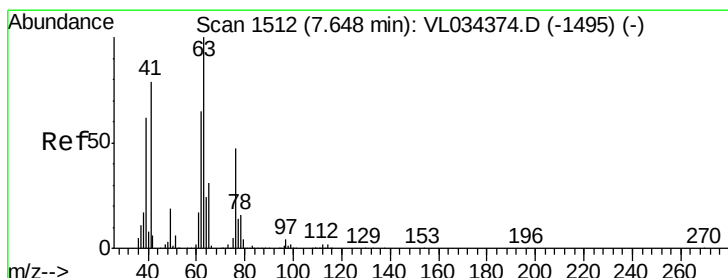
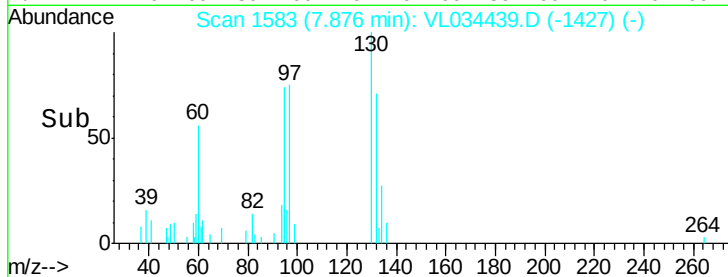
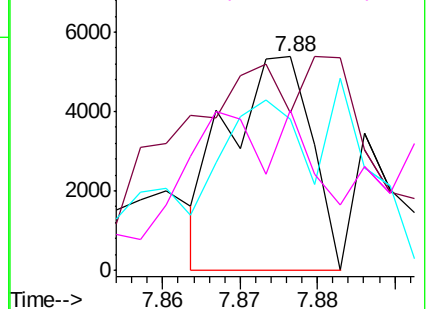


Abundance Ion 130.00 (129.70 to 130.70): V

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



#39

1,2-Dichloropropane

Concen: 7.678 ppbv

RT: 7.21 min Scan# 1375

Delta R.T. -0.44 min

Lab File: VL034439.D

Acq: 2 Dec 2019 23:18

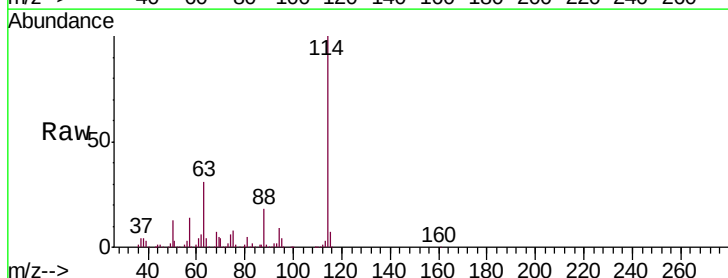
Tgt Ion: 63 Resp: 446210

Ion Ratio Lower Upper

63 100

41 0.0 63.1 94.7#

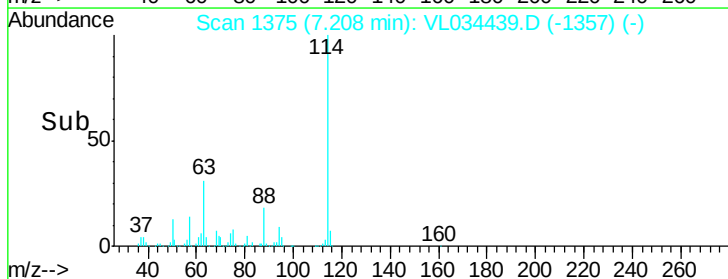
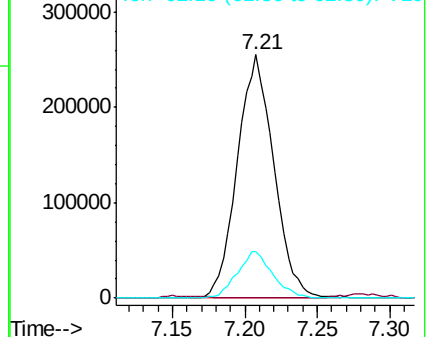
62 18.9 52.3 78.5#

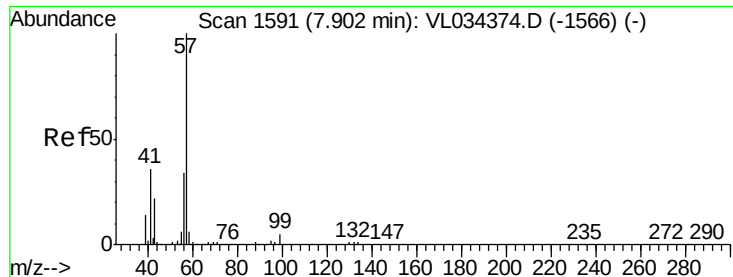


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

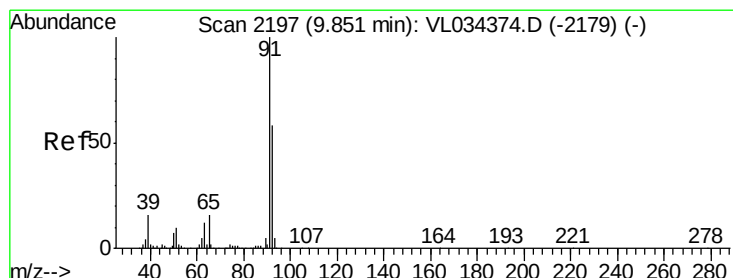
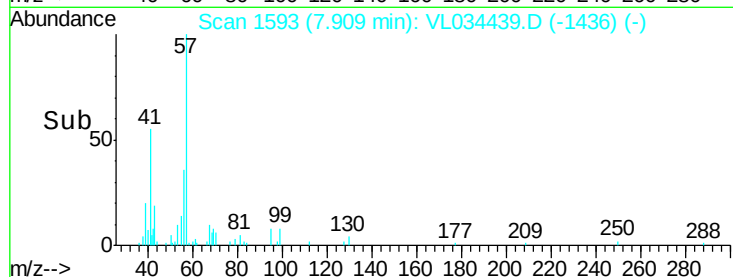
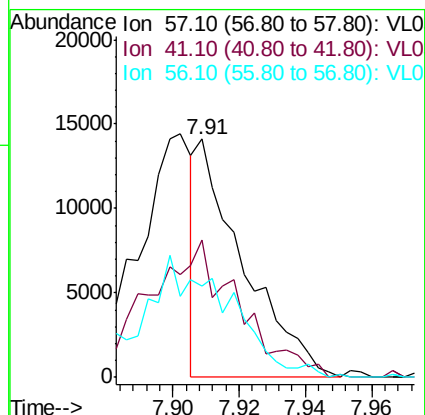
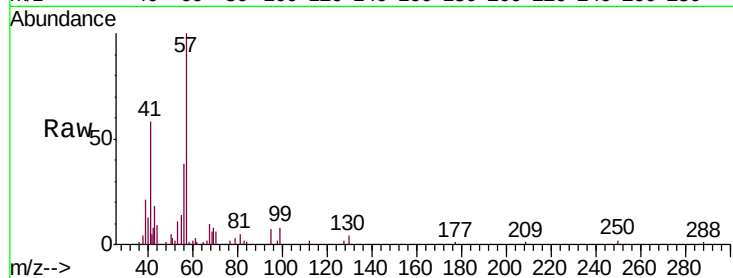




#44
 2,2,4-Trimethylpentane
 Concen: 0.049 ppbv
 RT: 7.91 min Scan# 1593
 Delta R.T. 0.01 min
 Lab File: VL034439.D
 Acq: 2 Dec 2019 23:18

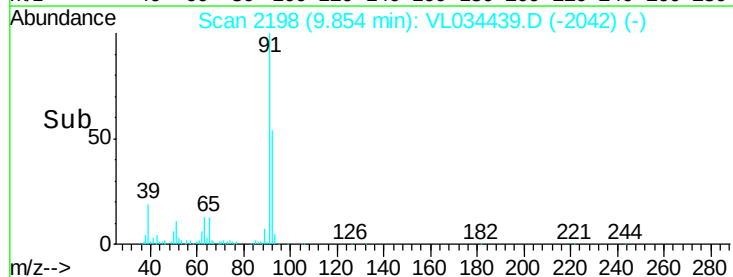
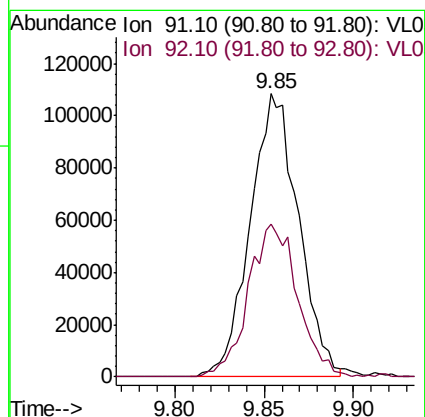
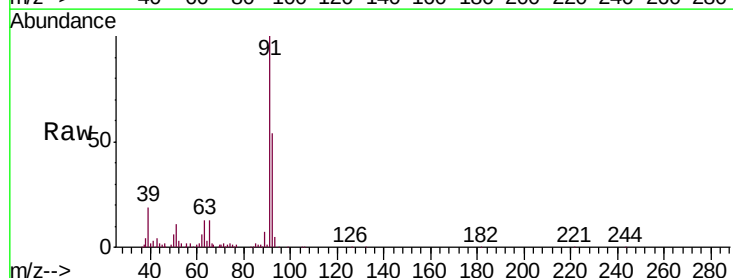
Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1A

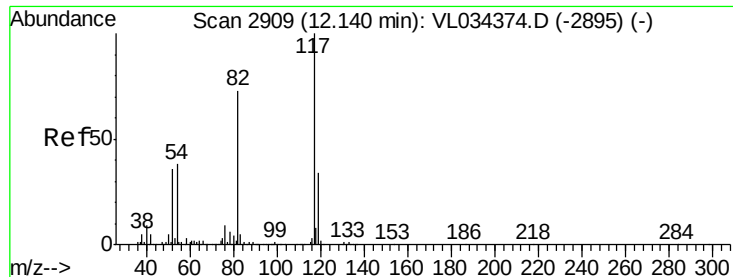
Tgt Ion: 57 Resp: 13610
 Ion Ratio Lower Upper
 57 100
 41 120.3 28.6 42.8#
 56 0.0 25.3 37.9#



#53
 Toluene
 Concen: 1.198 ppbv
 RT: 9.85 min Scan# 2198
 Delta R.T. 0.00 min
 Lab File: VL034439.D
 Acq: 2 Dec 2019 23:18

Tgt Ion: 91 Resp: 205208
 Ion Ratio Lower Upper
 91 100
 92 55.4 47.9 71.9

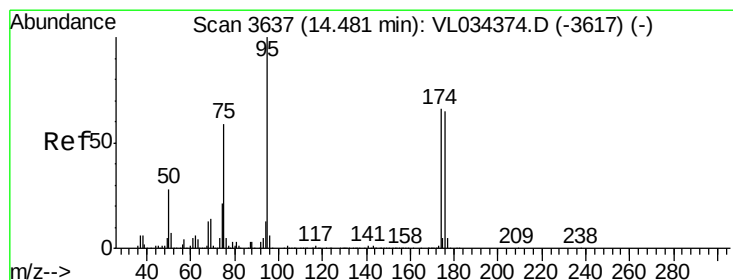
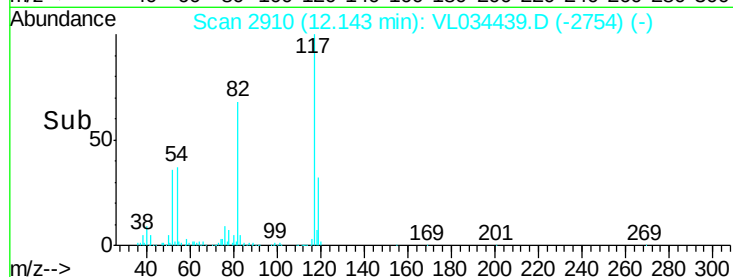
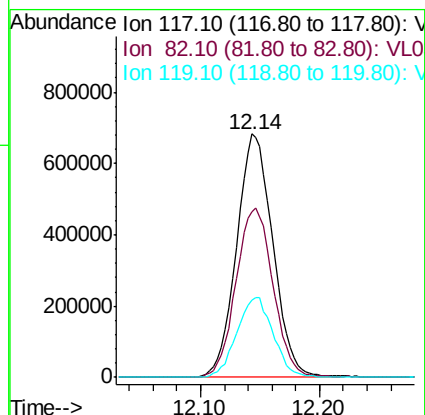
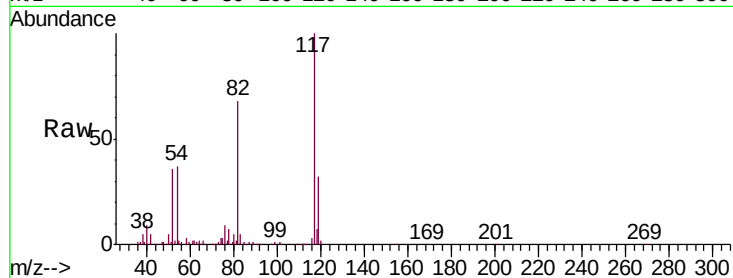




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2910
Delta R.T. 0.00 min
Lab File: VL034439.D
Acq: 2 Dec 2019 23:18

Instrument :
MSVOA_L
ClientSampleId :
QA-1A

Tgt Ion: 117 Resp: 1441790
Ion Ratio Lower Upper
117 100
82 71.3 57.5 86.3
119 32.9 25.4 38.2



#68
1-Bromo-4-Fluorobenzene
Concen: 10.244 ppbv
RT: 14.48 min Scan# 3638
Delta R.T. 0.00 min
Lab File: VL034439.D
Acq: 2 Dec 2019 23:18

Tgt Ion: 95 Resp: 1242527
Ion Ratio Lower Upper
95 100
174 64.3 52.2 78.2
175 4.6 3.8 5.8

